

## APPLICATIONS FOR ADMISSION AND FOR TRANSFER

The Constitution provides that the Board of Direction shall elect or reject all applicants for *Admission* or for *Transfer*, and, in order to determine justly the eligibility of each candidate, the Board must depend largely upon the Membership for information.

This list is issued to members in every grade for the purpose of securing all such available information, and every member is urged to scan carefully each monthly list of candidates and to furnish the Board with data in regard to any applicant which may aid in determining his eligibility. It is the *Duty* of all *Members* to the *Profession* to assist the Board in this manner.

It is especially urged, in communications concerning applicants, that errors in the record be pointed out and a *Definite Recommendation as to the Proper Grading in Each Case* be given, inasmuch as the grading must be based upon the opinions of those who know the applicant personally, as well as upon the nature and extent of his professional experience. If facts exist derogatory to the personal character or to the professional reputation of an applicant, they should be promptly communicated to the Board. *Communications Relating to Applicants are considered by the Board as Strictly Confidential.*

The Board of Direction will not consider the applications herein contained from residents of North America until the expiration of thirty (30) days, and from non-residents of North America until the expiration of ninety (90) days from September 1, 1927.

### MINIMUM REQUIREMENTS FOR ADMISSION

Grade	General Requirement	Age	Length of Active Practice	Responsible charge of work
Member	Qualified to design as well as to direct work	30 years	10 years*	5 years
Associate Member	Qualified to direct work	25 years	6 years*	1 year
Junior	Qualified for sub-professional work	18 years†	2 years*	
Affiliate	Qualified by scientific acquirements or practical experience to co-operate with engineers			
Fellow	Contributor to the permanent funds of the Society			

\* Graduation from a school of engineering of recognized reputation is equivalent to 2 years' active practice.

† Membership ceases at age of 32 unless transferred to higher grade.

# LIST OF APPLICANTS.

Names and Addresses of Applicants for Admission and for Transfer on this Preliminary List,  
Arranged Alphabetically.

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Nam  
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SELDEN,  
SHADRAK  
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SMITH, F  
STARK, A  
STEINHA  
STEWART  
STRICKL  
TABOR, I  
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TETER, C  
THOMAS,  
THWAIT  
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The fact that applicants give the names of certain members as references does not necessarily mean that such members endorse.

The number in the center above each record indicates the serial number of the applicant for the current year, and that at the left the district in which he resides.

The abbreviations in *Italics* represent, respectively, *TT*, Total Time; *SP*, Sub-Professional Work; *P*, Professional Work; *RC*, Responsible Charge; *D*, Design. The figures showing the amount of time spent in Responsible Charge and on Design are the estimate of the Applicant. The allowance of two years for graduation and of one-third of a year for each academic year successfully completed in an engineering college without graduation is included in Total Time and Sub-Professional Work.

## FOR ADMISSION

1145

(15) ADAM, EDWIN HEINE, 1308 Colorado St., Austin, Tex. (Age 23. Born Hillsboro, Tex.) 1927 B. S. in C. E., Univ. of Tex. *TT* 2: *SP* 2. Oct. 1924 to date (Sept. 1925 to June 1927 while student) with Texas Board of Water Engrs., until Sept. 1925 as Asst. Office Engr., drafting, assembling data, etc., and since then on laboratory and field work in silt study. *TT* 1.1: *SP* 1.1. *TT* 3.1: *SP* 3.1. Refers to E. C. H. Bantel, C. S. Clark, A. H. Dunlap, O. A. Faris, A. T. Granger, R. G. Hemphill, J. A. Norris, J. W. Pritchett, T. U. Taylor.

1146

(1) ALLIGER, HASBROUCK, JANSEN, 570 Upper Mountain Ave., Montclair, N. J. (Age 23. Born Brooklyn, N. Y.) 1927 B. S. in C. E., Lafayette Coll. *TT* 2: *SP* 2. Refers to F. O. Dufour, W. S. Lohr, A. B. Miller, L. Perry, F. W. Slantz.

1147

(4) BAKER, SAMUEL, 1215 Marion St., Scranton, Pa. (Age 34. Born Smorgon, Russia.) 1913 B. E., and 1919 C. E., Cooper Union. *TT* 2: *SP* 2. Summer 1912 with Jobson & Gifford Co., New York City, as Structural Detailer on steel work for electrification of New York, New Haven & Hartford R. R. May to Dec. 1913 Structural Draftsman, American Bridge Co., Brooklyn Plant, detailing steelwork for industrial buildings and school houses. *TT* 0.6: *SP* 0.6. Dec. 1913 to June 1916 Draftsman, Public Service Comm., New York City, 1 year on field work and 1½ years drafting and designing for subway and tunnel construction. *TT* 2.5: *SP* 1.5: *P* 1: *RC* 1: *D* 1. June 1916 to Nov. 1919 Draftsman, Pittsburgh & Lake Erie R. R., Pittsburgh, Pa., drafting and designing coaling plants, car-repair shops, culverts, small power houses, etc. *TT* 3.5: *SP* 0.5: *P* 3: *RC* 3: *D* 3. Nov. to Dec. 1919 with E. I. duPont de Nemours & Co., Wilmington, Del., as Designer of reinforced concrete factory buildings for Gen. Motors Corporation. *TT* 0.1: *P* 0.1: *RC* 0.1: *D* 0.1. June to Aug. 1926 Designer with J. A. L. Waddell, New York City, on design drawings for bridges. *TT* 0.1: *P* 0.1: *RC* 0.1: *D* 0.1. Aug. to Nov. 1926 Designer, Erie R. R. Co., New York City, preparing designs and estimates for steel and reinforced concrete bridges and for grade-crossing elimination projects. *TT* 0.3: *P* 0.3: *RC* 0.3: *D* 0.3. Dec. 1919 to June 1926 Asst. Principal and Principal, and Nov. 1926 to date Asst. Director and Director, Schools of Civ. Eng., International Correspondence Schools, writing and editing texts on civil engineering subjects, supervising instruction, etc. *TT* 7.2: *P* 7.2: *D* 2. *TT* 16.3: *SP* 4.6: *P* 11.7: *RC* 4.5: *P* 6.5. Refers to C. E. Conover, F. E. Foss, A. R. Raymer, C. K. Smoley, H. R. Thayer, J. P. J. Williams.

1148

(1) BARROWS, LAMBERT BATTIN, Jr., 432 Grand Ave., Brooklyn, N. Y. (Age 22. Born Brooklyn, N. Y.) 1927 B. S. in Civ. Eng., Union Coll. *TT* 2: *SP* 2. Refers to H. Miller, W. C. Taylor.

1149

(7) BERGSTROM, MYRON FRANCIS, 2819 Kingman Boulevard, Des Moines, Iowa. (Age 23. Born Dike, Iowa.) 1927 B. S., Iowa State Coll. *TT* 2: *SP* 2. Refers to T. R. Agg, R. A. Caughey, J. S. Dodds, W. L. Foster, A. H. Fuller, J. H. Griffith, F. Kerekes.



## 1150

(10) **BLACKBURN, FRANCIS ELLIS**, Demopolis, Ala. (Age 28. Born Anthony, Kans.) June 1920 to April 1921 and May 1923 to July 1924 with Rock Island R. R., until April 1921 as Rodman, and after May 1923 Bridge Inspector in charge of bridge construction on Latimer to Herington Line change (Kansas Div.), concrete, steel and timber structures. *TT 2: SP 0.8: P 1.2: RC 1.2.* April 1921 to 1922 Street Inspector, City of Herington, Kans. *TT 0.7: SP 0.7.* Jan. 1922 to May 1923 Foreman, Kaw Paving Co., on sewer and paving construction. *TT 1.4: SP 1.4.* July 1924 to Nov. 1925 Bridge Inspector, Central of Georgia R. R., in charge of all bridge construction on Goodwater to Hollands line change (Alabama Div.) concrete and steel structures. *TT 1.3: P 1.3: RC 1.3.* Nov. 1925 to date with Geo. L. Moulton, Cons. Engr., as Res. Engr. in charge of water, paving and sewer construction. *TT 1.7: P 1.7: RC 1.7. TT 7.1: SP 2.9: P 4.2: RC 4.2.* Refers to W. H. Caruthers, W. Finnell, G. L. Moulton, J. R. Peavy, E. L. Scruggs.

## 1151

(1) **BLOOM, ABRAHAM**, 622 West Front St., Plainfield, N. J. (Age 21. Born New York City.) 1927 B. S. in C. E., Cooper Union Inst. Tech. *TT 2: SP 2.* Refers to F. E. Foss, J. P. J. Williams.

## 1152

(1) **BOLINAS, ANDRES, Jr.**, P. O. Box 50, Legaspi, Albay, Philippine Islands. (Age 29. Born Ilagan, Philippine Islands.) A. B., and 1922 B. S. in Civ. Eng., Univ. of the Philippines. *TT 2: SP 2.* April-June of years 1918 and 1921 Eng. Asst., Bureau of Public Works, Govt. of the Philippine Islands, acting as Transitman and Bldg. Inspector. April 1922 to April 1923 Civ. Engr. with Isidro Salazar, Bldg. Contr., Manila, Philippine Islands, designing and inspecting buildings; also Instructor in mathematics, Univ. of the Philippines. *TT 1: P 1.* April 1923 to Jan. 1926 Asst. Civ. Engr., Bureau of Public Works, until July 1925 with Constr. Div., on road location and surveys, drafting, designing, inspecting bridge, building and water-works construction, office administration and estimating; after Aug. 1925 with Div. of Architecture, designing buildings, their foundations and structural details and alterations of old structures. *TT 2.7: P 2.7: RC 0.4: D 0.7.* Jan. 1926 to date in private practice as Civ. Engr., Surveyor and Contr.; designed, drew plans for and supervised construction of reinforced concrete and frame buildings (one under construction to cost \$40 000), etc.; in 1926 completed government contracts for three buildings and a concrete bridge; at present has government contracts for a school and a market building (both reinforced concrete), a suspension bridge (span 180 ft.) and three municipal water-works. *TT 1.6: P 1.6: RC 1: D 0.5. TT 7.3: SP 2: P 5.3: RC 1.4: D 1.2.* Refers to A. R. Webb. (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

## 1153

(1) **BONANNO, JOSEPH ANTHONY**, 1061 Arcadian Way, Palisade, N. J. (Age 31. Born New York City.) June 1912 to July 1916 Draftsman with William Barries, Archt., Union Hill, N. J., first year tracing, then on design of industrial buildings, plant layouts. *TT 4: SP 4: D 2.* July 1916 to July 1917 with E. Mosher & Co., Washington, D. C., as Supt. of Constr. of industrial buildings, being Supt. of Medical Bldg. for U. S. Army. *TT 1: SP 0.6: P 0.4: RC 0.4.* July 1917 to Feb. 1919 with U. S. Navy, as Chf. Carpenter's Mate, acting as Inspector of construction at Brooklyn Navy Yard and as Public Works Officer in charge of design and construction of hangars, shipways, docks and piers, at Aviation Station, Lough Foyle, Ireland. *TT 1.7: P 1.7: RC 1.7: D 0.7.* Feb. 1919 to date with Bonnano Bros., Bldg. Contrs. since 1921 as Pres.; firm designs and constructs industrial buildings, has had full charge of layout, design and development of North Jersey industrial terminal at North Bergen, N. J., entailing layout of factories, railroad sidings, streets, sewers, etc. *TT 8.4: P 8.4: RC 8: D 5. TT 15.1: SP 4.6: P 10.5: RC 10.1: D 5.7.* Refers to A. H. Bromley, J. Muss, F. J. Oleri, R. H. Sartor, H. B. Wheatcroft, Jr.

## 1154

(1) **BOOSS, GEORGE FREDERICK CHARLES, Jr.**, 214 West Ninety-Second St., New York City. (Age 25. Born New York City.) 1924 A. B., Columbia Coll. 1926 C. E., Columbia Univ. *TT 2: SP 2.* July 1926 to July 1927 Draftsman, The Texas Co., Houston and Port Arthur, Tex. *TT 1: SP 1. TT 3: SP 3.* Refers to J. B. Bennett, A. H. Beyer, J. K. Finch, D. G. Follett, W. J. Krefeld.

## 1155

(6) **BORTON, HOMER THOMPSON**, 505 Washington Ave., Oakmont, Pa. (Age 24. Born Fairview, Ohio.) A. B., Muskingum Coll. 1927 B. S. in Civ. Eng., Case School of Applied Sci. Vacations since 1923 and at present with Douglass & McKnight, Pittsburgh, Pa. *TT 2: SP 2.* Refers to C. A. Miller, F. H. Neff, E. B. Thomas.

## 1156

(9) **BOYLE, JOHN JOSEPH**, Caseyville, Ky. (Age 21. Born Dorchester, Mass.) 1927 B. S., Mass. Inst. Tech. *TT 2: SP 2.* June 1927 to date with U. S. Govt. as Surveyman on Dam 50, Ohio River, Caseyville, Ky. *TT 0.1: SP 0.1.* *TT 2.1: SP 2.1.* Refers to H. K. Barrows, C. M. Spofford.

## 1157

(6) **BRANDT, EVAN WILLIAM**, 235 North Dithridge St., Pittsburgh, Pa. (Age 22. Born York, Pa.) 1927 B. S., Pa. State Coll. *TT 2: SP 2.* Refers to R. O'Donnell, R. L. Sackett, E. D. Walker.

## 1158

(14) **BRICE, NORMAN ROOT**, 2105 Blendon Pl., St. Louis, Mo. (Age 26. Born St. Louis, Mo.) 1927 B. S., Washington Univ. *TT 2: SP 2.* Feb. to June 1926 Student Instructor in Surveying, Washington Univ., St. Louis, Mo. Summer 1926 and May 1927 to date Drafterman and Designer, Bridge Dept., Wabash R. R., on grade separation. *TT 0.2: P 0.2.* *TT 2.2: SP 2: P 0.2.* Refers to W. H. Bush, C. W. S. Sammelman, S. M. Smith, E. O. Sweetser, J. L. Van Ornum.

## 1159

(12) **BUCHANAN, JESSE EVERETT**, 620 Idaho Ave., Moscow, Idaho. (Age 23. Born Fenton, Iowa.) 1927 B. S., Coll. of Eng., Univ. of Idaho. *TT 2: SP 2.* June 1922 to Jan. 1923 Inspector for A. T. Gray, Contr., Glendale, Cal. *TT 0.5: SP 0.5.* Jan. to Sept. 1923 Operator in physical testing laboratory, and Timekeeper, American Mineral Production Co., Valley, Wash. *TT 0.8: SP 0.8.* Jan. 1925 to June 1926 Asst. Instructor in Drafting and Descriptive Geometry, June 1926 to June 1927 Operator in Road Materials Testing Laboratory, and June 1927 to date Instructor in Civ. Eng. and Materials Testing Engr., Univ. of Idaho. *TT 0.1: P 0.1* *TT 3.4: SP 3.3: P 0.1.* Refers to I. C. Crawford, M. R. Lewis, A. P. Ludberg, C. R. Moore.

## 1160

(1) **CARMICHAEL, DAVID WATSON**, 160 Watchung Ave., North Plainfield, N. J. (Age 25. Born Paisley, Scotland.) 1924 B. S. in C. E., Tri-State Coll. June 1917 to Oct. 1922 with City of Plainfield, N. J., from Rodman to charge of field parties on sewer and road construction. *TT 4: SP 4.* Sept. 1924 to Jan. 1925 with City of Roselle, N. J., in charge of parties laying out work for sewer and road construction. *TT 0.3: P 0.3: RC 0.3.* Jan. 1925 to April 1926 Detaller, Truscon Steel Co., on reinforced concrete construction. *TT 1.2: SP 1.2.* April to July 1926 Engr., Sobray-Whitcomb Co., in charge of construction. *TT 0.3: P 0.3: RC 0.3.* Sept. 1926 to date with Fuller & McClintock, on valuations and investigations. *TT 0.8: P 0.8.* *TT 6.8: SP 5.2: P 1.6: RC 0.7.* Refers to G. W. Fuller, W. Gavett, J. C. Harding, R. W. Hunt, A. W. Vars.

## 1161

(9) **CARMICHAEL, HENRY ST. GEORGE TUCKER, Jr.**, Kyrock, Ky. Graduating student awarded Virginia Section prize. (Age 20. Born Hagerstown, Md.) 1927 B. S., Va. Mil. Inst. *TT 2: SP 2.* Refers to J. A. Anderson, J. Q. Barlow, W. C. Hattan, A. J. Saville, H. G. Shirley.

## 1162

(11) **CARNAHAN, CHARLES TRUNNELL**, 1132 Kensington Rd., Los Angeles, Cal. (Age 22. Born Pittsburgh, Pa.) 1927 B. A., Leland Stanford, Jr. Univ. *TT 2: SP 2.* Refers to J. C. L. Fish, L. B. Reynolds, C. B. Wing.

## 1163

(7) **CERVI, ALBERT GEORGE**, 124 Franklin Ave., Ames, Iowa. (Age 23. Born Berwick, Iowa.) 1927 B. S., Iowa State Coll. *TT 2: SP 2.* July 1923 to Jan. 1924 with Pittsburg, Des Moines Steel Co., as Shop Inspector of fabricated steel designs. *TT 0.5: SP 0.5.* May to Oct. 1924 and June to Oct. 1925 Engr., Des Moines Elec. Co., acting as Rodman, Instrumentman and Inspector on high-tension transmission line construction. Oct. 1925 to June 1927 (while student) Asst. Campus Engr., Iowa State Coll., acting as Rodman, Instrumentman, Inspector, Surveyor, designing sewers, steam tunnels, water lines, building layouts, mapping, etc. *TT 0.5: SP 0.5.* *TT 2.5: SP 2.5.* Refers to J. S. Dodds, W. L. Foster, A. H. Fuller, J. H. Griffith.

## 1164

(12) **CLAYTON, WALTER CROFT**, 1315 Lakeview Boulevard, Seattle, Wash. (Age 27. Born Nelson, B. C., Canada.) 1927 B. S. in C. E., Univ. of Wash. *TT 2: SP 2.* Refers to I. L. Collier, J. B. Hamilton, C. C. More.

## 1165

(13) **CLYDE, HARRY SCHLEY**, 35½ North Ophir St., Stockton, Cal. (Age 25. Born Springville, Utah.) 1922 B. S., Utah Agri. Coll. 1924 M. S. Univ. of Cal. *TT 2: SP 2.* June to Sept. 1922 Rodman, U. S. Bureau of Public Roads. *TT 0.3: SP 0.3.* Sept. to Dec.

1922, Chainman, Spring Canyon Coal Co. *TT 0.3: SP 0.3.* Jan. to May 1923 and Aug. 1923 to May 1924, graduate work, Univ. of California. *TT 1.1: P 1.1.* May to Aug. 1923, Inspector, San Francisco Office, U. S. Engrs. *TT 0.2: SP 0.2.* May to July 1924 Draftsman, Street Dept., City of Oakland. *TT 0.2: SP 0.2.* July 1924 to date Asst. Engr., East Bay Municipal Utility Dist., until Aug. 1925 on preliminary estimates to determine source of water supply, transit work and in office plotting detailed topography and alignment, then in charge of field party on location surveys for aqueduct line, property ties for right of way, and detailed topography, including stadia survey of Mokelumne River, etc., and since Aug. 1926 in charge of field parties on construction of Mokelumne River Aqueduct Central Div. including 32 miles of 61-in. to 65-in. steel pipe (16 miles on piling). *TT 3.1: SP 1.1: P 2: RC 2.* *TT 7.2: SP 4.1: P 3.1: RC 2.* Refers to J. G. Bastow, A. P. Davis, A. J. Eddy, S. T. Harding, O. W. Israelsen, J. S. Longwell, J. Munn.

## 1166

(9) COADY, EDMUND PATRICK, U. S. Geological Survey, Hiram, Ohio. (Age 22. Born Columbus, Ohio.) 1927 B. C. E., Ohio State Univ. *TT 2: SP 2.* July to Oct. 1925 with Lasley Lee, Columbus, Ohio, running levels, placing reinforced concrete, building forms, etc. *TT 0.3: SP 0.3.* Nov. to Dec. 1925 with J. P. Rickard, St. Petersburg, Fla., on field and office work for lot subdivision and layout. *TT 0.1: SP 0.1.* Dec. 1925 to March 1926 with C. W. Gillespie, Scotia, N. Y., on drafting and subdivision planning, field layout, etc. *TT 0.2: SP 0.2.* *TT 2.6: SP 2.6.* Refers to L. Lee, C. T. Morris, J. C. Prior, J. R. Shank, C. E. Sherman, R. C. Sloane.

## 1167

(14) COLE, FRED MELVILLE, 1095 Ry. Exchange Bldg., St. Louis, Mo. (Age 22. Born Desloge, Mo.) 1927 B. S. in C. E., Washington Univ. *TT 2: SP 2.* Summer 1926 Rodman, and Summer 1925 and June 1927 to date Chainman, Missouri Pacific R. R. *TT 0.2: SP 0.2.* *TT 2.2: SP 2.2.* Refers to E. A. Hadley, C. S. McArdle, E. O. Sweetser, J. L. Van Ornum, F. C. Woermann.

## 1168

(7) CONFER, EARL LESLIE, 13376 Lauder Ave., Detroit, Mich. (Age 26. Born Adams, Nebr.) 1927 B. S., Univ. of Ill. *TT 2: SP 2.* Sept. 1922 to Sept. 1924 Arch. Draftsman with Fiske & McGinnis, Archts., Lincoln, Nebr. Summers 1925 and 1926 Structural Supt. with Berger & Kelley, Archts., Champaign, Ill. July 1927 to date Engr., Structural Dept., Smith, Hinchman & Grylls, Archts. and Engrs., Detroit, Mich. *TT 2: SP 2.* *TT 4: SP 4.* Refers to H. H. Jordan, N. D. Morgan, L. H. Provine.

## 1169

(6) CONNELL, ALVA RAY, 190 Beaver St., Beaver, Pa. (Age 22. Born Macon, Ga.) 1927 B. S. in C. E., Ga. School Tech. June 1927 to date Draftsman, Treadwell Constr. Co., Midland, Pa. *TT 2: SP 2.* Refers to R. P. Black, F. C. Snow.

## 1170

(13) CRESSY, FRANK BEECHER, R. F. D. No. 1, Box 1712, Oakland, Cal. (Age 25. Born San Francisco, Cal.) 1927 B. S., Coll. of Civ. Eng., Univ. of Cal. *TT 2: SP 2.* June 1921 to Aug. 1923 and May 1927 to date with East Bay Water Co., as Rodman, Chainman, Instrumentman, Levelman, Recorder, Draftsman and Inspector of concrete work. *TT 2.3: SP 2.3.* *TT 4.3: SP 4.3.* Refers to R. E. Davis, C. Derleth, Jr., B. A. Etcheverry, S. T. Harding, G. W. Hawley, C. G. Hyde, G. V. Rhodes.

## 1171

(9) CRUTCHER, THOMAS BABER, Jr., 1928 Avery Court, Louisville, Ky. (Age 23. Born Louisville, Ky.) 1927 B. S. in C. E., Rose Pol. Inst. *TT 2: SP 2.* June 1924 to Sept. 1925 Asst. City Engr., Louisville, Ky. *TT 1.4: SP 1.4.* *TT 3.4: SP 3.4.* Refers to R. E. Hutchins, R. L. McCormick.

## 1172

(10) DAVIS, EDWARD McCOLLOUGH, 2322 East Beach, Gulfport, Miss. (Age 28. Born Newberry, S. C.) 1922 C. E., Ga. School Tech. *TT 2: SP 2.* July 1922 to Feb. 1923 Time-keeper and Engr., laying out and leveling buildings, Fiske-Carter Constr. Co., Greenville, S. C. *TT 0.7: SP 0.7.* Feb. to July 1923 Engr. on road paving and water-works, with Mees & Mees, Engrs., Charlotte, N. C. *TT 0.4: P 0.4.* July 1923 to July 1924 Engr. on houses, sewer, water-works and roads, Lockwood, Greene & Co., Atlanta, Ga. *TT 1: P 1.* July to Sept. 1924 Engr. on map making, Young & Co., Tampa, Fla. *TT 0.2: P 0.2: D 0.2.* Sept. 1924 to April 1925 Engr. on road paving and map making, Southern Constr. & Eng. Co., Sarasota, Fla. *TT 0.6: P 0.6: RC 0.6: D 0.2.* April 1925 to June 1926 with Davis & Davis, Engrs., Miami, Fla., as Engr. in charge of road paving and water-works, also map making. *TT 1.2: P 1.2: RC 0.6: D 0.6.* June 1926 to date Engr. on road paving, Harrison County Highway Dept. *TT 1.2: P 1.2: D 0.2.* *TT 7.3: SP 2.7: P 4.6: RC 1.2: D 1.2.* Refers to J. H. Dorroh, W. S. Hawkins, C. A. Mees, R. M. Miller, H. D. Shaw.

## 1156

(9) **BOYLE, JOHN JOSEPH**, Caseyville, Ky. (Age 21. Born Dorchester, Mass.) 1927 B. S., Mass. Inst. Tech. TT 2: SP 2. June 1927 to date with U. S. Govt. as Surveyman on Dam 50, Ohio River, Caseyville, Ky. TT 0.1: SP 0.1. TT 2.1: SP 2.1. Refers to H. K. Barrows, C. M. Spofford.

## 1157

(6) **BRANDT, EVAN WILLIAM**, 235 North Dithridge St., Pittsburgh, Pa. (Age 22. Born York, Pa.) 1927 B. S., Pa. State Coll. TT 2: SP 2. Refers to R. O'Donnell, R. L. Sackett, E. D. Walker.

## 1158

(14) **BRICE, NORMAN ROOT**, 2105 Blendon Pl., St. Louis, Mo. (Age 26. Born St. Louis, Mo.) 1927 B. S., Washington Univ. TT 2: SP 2. Feb. to June 1926 Student Instructor in Surveying, Washington Univ., St. Louis, Mo. Summer 1926 and May 1927 to date Draftsman and Designer, Bridge Dept., Wabash R. R., on grade separation. TT 0.2: P 0.2. TT 2.2: SP 2: P 0.2. Refers to W. H. Bush, C. W. S. Sammelman, S. M. Smith, E. O. Sweetser, J. L. Van Ornum.

## 1159

(12) **BUCHANAN, JESSE EVERETT**, 620 Idaho Ave., Moscow, Idaho. (Age 23. Born Fenton, Iowa.) 1927 B. S., Coll. of Eng., Univ. of Idaho. TT 2: SP 2. June 1922 to Jan. 1923 Inspector for A. T. Gray, Contr., Glendale, Cal. TT 0.5: SP 0.5. Jan. to Sept. 1923 Operator in physical testing laboratory, and Timekeeper, American Mineral Production Co., Valley, Wash. TT 0.8: SP 0.8. Jan. 1925 to June 1926 Asst. Instructor in Drafting and Descriptive Geometry, June 1926 to June 1927 Operator in Road Materials Testing Laboratory, and June 1927 to date Instructor in Civ. Eng. and Materials Testing Engr., Univ. of Idaho. TT 0.1: P 0.1. TT 3.4: SP 3.3: P 0.1. Refers to I. C. Crawford, M. R. Lewis, A. P. Ludberg, C. R. Moore.

## 1160

(1) **CARMICHAEL, DAVID WATSON**, 160 Watchung Ave., North Plainfield, N. J. (Age 25. Born Paisley, Scotland.) 1924 B. S. in C. E., Tri-State Coll. June 1917 to Oct. 1922 with City of Plainfield, N. J., from Rodman to charge of field parties on sewer and road construction. TT 4: SP 4. Sept. 1924 to Jan. 1925 with City of Roselle, N. J., in charge of parties laying out work for sewer and road construction. TT 0.9: P 0.3: RC 0.3. Jan. 1925 to April 1926 Detailer, Truscon Steel Co., on reinforced concrete construction. TT 1.2: SP 1.2. April to July 1926 Engr., Sobray-Whitcomb Co., in charge of construction. TT 0.3: P 0.3: RC 0.3. Sept. 1926 to date with Fuller & McClintock, on valuations and investigations. TT 0.8: P 0.8. TT 6.8: SP 5.2: P 1.6: RC 0.7. Refers to G. W. Fuller, W. Gavett, J. C. Harding, R. W. Hunt, A. W. Vars.

## 1161

(9) **CARMICHAEL, HENRY ST. GEORGE TUCKER, Jr.**, Kyrock, Ky. Graduating student awarded Virginia Section prize. (Age 20. Born Hagerstown, Md.) 1927 B. S., Va. Mil. Inst. TT 2: SP 2. Refers to J. A. Anderson, J. Q. Barlow, W. C. Hattan, A. J. Saville, H. G. Shirley.

## 1162

(11) **CARNAHAN, CHARLES TRUNNELL**, 1132 Kensington Rd., Los Angeles, Cal. (Age 22. Born Pittsburgh, Pa.) 1927 B. A., Leland Stanford, Jr. Univ. TT 2: SP 2. Refers to J. C. L. Fish, L. B. Reynolds, C. B. Wing.

## 1163

(7) **CERVI, ALBERT GEORGE**, 124 Franklin Ave., Ames, Iowa. (Age 23. Born Berwick, Iowa.) 1927 B. S., Iowa State Coll. TT 2: SP 2. July 1923 to Jan. 1924 with Pittsburgh, Des Moines Steel Co., as Shop Inspector of fabricated steel designs. TT 0.5: SP 0.5. May to Oct. 1924 and June to Oct. 1925 Engr., Des Moines Elec. Co., acting as Rodman, Instrumentman and Inspector on high-tension transmission line construction. Oct. 1925 to June 1927 (while student) Asst. Campus Engr., Iowa State Coll., acting as Rodman, Instrumentman, Inspector, Surveyor, designing sewers, steam tunnels, water lines, building layouts, mapping, etc. TT 0.5: SP 0.5. TT 2.5: SP 2.5. Refers to J. S. Dodds, W. L. Foster, A. H. Fuller, J. H. Griffith.

## 1164

(12) **CLAYTON, WALTER CROFT**, 1315 Lakeview Boulevard, Seattle, Wash. (Age 27. Born Nelson, B. C., Canada.) 1927 B. S. in C. E., Univ. of Wash. TT 2: SP 2. Refers to I. L. Collier, J. B. Hamilton, C. C. More.

## 1165

(13) **CLYDE, HARRY SCHLEY**, 35½ North Ophir St., Stockton, Cal. (Age 25. Born Springville, Utah.) 1922 B. S., Utah Agri. Coll. 1924 M. S. Univ. of Cal. TT 2: SP 2. June to Sept. 1922 Rodman, U. S. Bureau of Public Roads. TT 0.3: SP 0.3. Sept. to Dec.



1922, Chainman, Spring Canyon Coal Co. *TT 0.3: SP 0.3.* Jan. to May 1923 and Aug. 1923 to May 1924, graduate work, Univ. of California. *TT 1.1: P 1.1.* May to Aug. 1923, Inspector, San Francisco Office, U. S. Engrs. *TT 0.2: SP 0.2.* May to July 1924 Draftsman, Street Dept., City of Oakland. *TT 0.2: SP 0.2.* July 1924 to date Asst. Engr., East Bay Municipal Utility Dist., until Aug. 1925 on preliminary estimates to determine source of water supply, transit work and in office plotting detailed topography and alignment, then in charge of field party on location surveys for aqueduct line, property ties for right of way, and detailed topography, including stadia survey of Mokelumne River, etc., and since Aug. 1926 in charge of field parties on construction of Mokelumne River Aqueduct Central Div. including 32 miles of 61-in. to 65-in. steel pipe (16 miles on piling). *TT 3.1: SP 1.1: P 2: RC 2.* *TT 7.2: SP 4.1: P 3.1: RC 2.* Refers to J. G. Bastow, A. P. Davis, A. J. Eddy, S. T. Harding, O. W. Israelsen, J. S. Longwell, J. Munn.

## 1166

(9) COADY, EDMUND PATRICK, U. S. Geological Survey, Hiram, Ohio. (Age 22. Born Columbus, Ohio.) 1927 B. C. E., Ohio State Univ. *TT 2: SP 2.* July to Oct. 1925 with Lasley Lee, Columbus, Ohio, running levels, placing reinforced concrete, building forms, etc. *TT 0.3: SP 0.3.* Nov. to Dec. 1925 with J. P. Rickard, St. Petersburg, Fla., on field and office work for lot subdivision and layout. *TT 0.1: SP 0.1.* Dec. 1925 to March 1926 with C. W. Gillespie, Scotia, N. Y., on drafting and subdivision planning, field layout, etc. *TT 0.2: SP 0.2.* *TT 2.6: SP 2.6.* Refers to L. Lee, C. T. Morris, J. C. Prior, J. R. Shank, C. E. Sherman, R. C. Sloane.

## 1167

(14) COLE, FRED MELVILLE, 1095 Ry. Exchange Bldg., St. Louis, Mo. (Age 22. Born Desloge, Mo.) 1927 B. S. in C. E., Washington Univ. *TT 2: SP 2.* Summer 1926 Rodman, and Summer 1925 and June 1927 to date Chainman, Missouri Pacific R. R. *TT 0.2: SP 0.2.* *TT 2.2: SP 2.2.* Refers to E. A. Hadley, C. S. McArdle, E. O. Sweetser, J. L. Van Ornum, F. C. Woermann.

## 1168

(7) CONFER, EARL LESLIE, 13376 Lauder Ave., Detroit, Mich. (Age 26. Born Adams, Nebr.) 1927 B. S., Univ. of Ill. *TT 2: SP 2.* Sept. 1922 to Sept. 1924 Arch. Draftsman with Fiske & McGinnis, Archts., Lincoln, Nebr. Summers 1925 and 1926 Structural Supt. with Berger & Kelley, Archts., Champaign, Ill. July 1927 to date Engr., Structural Dept., Smith, Hinchman & Grylls, Archts. and Engrs., Detroit, Mich. *TT 2: SP 2.* *TT 4: SP 4.* Refers to H. H. Jordan, N. D. Morgan, L. H. Province.

## 1169

(6) CONNELL, ALVA RAY, 190 Beaver St., Beaver, Pa. (Age 22. Born Macon, Ga.) 1927 B. S. in C. E., Ga. School Tech. June 1927 to date Draftsman, Treadwell Constr. Co., Midland, Pa. *TT 2: SP 2.* Refers to R. P. Black, F. C. Snow.

## 1170

(13) CRESSY, FRANK BEECHER, R. F. D. No. 1, Box 1712, Oakland, Cal. (Age 25. Born San Francisco, Cal.) 1927 B. S., Coll. of Civ. Eng., Univ. of Cal. *TT 2: SP 2.* June 1921 to Aug. 1923 and May 1927 to date with East Bay Water Co., as Rodman, Chainman, Instrumentman, Levelman, Recorder, Draftsman and Inspector of concrete work. *TT 2.3: SP 2.3.* *TT 4.3: SP 4.3.* Refers to R. E. Davis, C. Derleth, Jr., B. A. Etcheverry, S. T. Harding, G. W. Hawley, C. G. Hyde, G. V. Rhodes.

## 1171

(9) CRUTCHER, THOMAS BABER, Jr., 1928 Avery Court, Louisville, Ky. (Age 23. Born Louisville, Ky.) 1927 B. S. in C. E., Rose Pol. Inst. *TT 2: SP 2.* June 1924 to Sept. 1925 Asst. City Engr., Louisville, Ky. *TT 1.4: SP 1.4.* *TT 3.4: SP 3.4.* Refers to R. E. Hutchins, R. L. McCormick.

## 1172

(10) DAVIS, EDWARD MCCOLLOUGH, 2322 East Beach, Gulfport, Miss. (Age 28. Born Newberry, S. C.) 1922 C. E., Ga. School Tech. *TT 2: SP 2.* July 1922 to Feb. 1923 Time-keeper and Engr., laying out and leveling buildings, Fiske-Carter Constr. Co., Greenville, S. C. *TT 0.7: SP 0.7.* Feb. to July 1923 Engr. on road paving and water-works, with Mees & Mees, Engrs., Charlotte, N. C. *TT 0.4: P 0.4.* July 1923 to July 1924 Engr. on houses, sewer, water-works and roads, Lockwood, Greene & Co., Atlanta, Ga. *TT 1: P 1.* July to Sept. 1924 Engr. on map making, Younge & Co., Tampa, Fla. *TT 0.2: P 0.2: D 0.2.* Sept. 1924 to April 1925 Engr. on road paving and map making, Southern Constr. & Eng. Co., Sarasota, Fla. *TT 0.6: P 0.6: RC 0.6: D 0.2.* April 1925 to June 1926 with Davis & Davis, Engrs., Miami, Fla., as Engr. in charge of road paving and water-works, also map making. *TT 1.2: P 1.2: RC 0.6: D 0.6.* June 1926 to date Engr. on road paving, Harrison County Highway Dept. *TT 1.2: P 1.2: D 0.2.* *TT 7.3: SP 2.7: P 4.6: RC 1.2: D 1.2.* Refers to J. H. Dorroh, W. S. Hawkins, C. A. Mees, R. M. Miller, H. D. Shaw.



## 1173

(1) **DAYBERT, GEORGE WILLIAM**, 205 Maple Ave., Irvington, N. J. (Age 31. Born New York City.) 1925 B. S., Mass. Inst. Tech. *TT 2: SP 2.* June 1912 to Nov. 1919 (except July 1917 to Jan. 1919 with A. E. F.) with City Eng. Dept., Torrington, Conn., on streets, sewers, bridges, etc., until July 1914 as Rodman and Transitman, July 1914 to June 1915 Chf. of Party, June 1915 to Jan. 1917 Chf. Inspector, and remainder of time First Asst. to City Engr. *TT 5.9: SP 4.9: P 1: RC 1.2: D 0.4.* Nov. 1919 to April 1921 Asst. Engr., Office of Arthur A. Shurtleff, Landscape Archt., on estimates, quantities, costs, grading and drainage plans, park layouts, city planning work, supervised construction in field and had charge of general engineering work. *TT 1.5: P 1.5: RC 0.7: D 0.7.* April 1921 to June 1925 student, Huntington Preparatory School, Boston, Mass. (6 months) and Massachusetts Inst. of Technology. June 1925 to March 1927 with North Jersey Dist. Water Supply Comm., Wanaque Reservoir Project, until July 1926 as Computer, on appraisal and valuation, Passaic Consolidated Water Co., plain and reinforced concrete design, culverts, grade and pressure aqueduct; after July 1926 Asst. Engr. on contracts and specifications, design computations for piping at main dam and for aerator, plans and designs for smaller dams and for relocation of railroad and highway. *TT 1.7: P 1.7: D 0.7.* March 1927 to date Asst. Engr., Union Carbide & Carbon Co., Constr. Dept., structural steel and reinforced concrete design, mill buildings, plant layouts, supervision of computations and design. *TT 0.5: P 0.5: D 0.5. TT 11.6: SP 6.9: P 4.7: RC 3.3: D 2.4.* Refers to L. G. Cutler, S. Gordon, J. Leahy, C. A. Patterson, A. L. Sherman, C. M. Spofford.

## 1174

(1) **DESAI, DAHYABHAI SHIVABHAI**, 39 Wadbrough Road, Sheffield, England. (Age 24. Born Nadlad, India.) 1927 B. Eng. (first-class), Univ. of Sheffield. *TT 2: SP 2.* Refers to J. Husband. (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

## 1175

(1) **de WESTFELT, GERARD PHILIP**, 157 East 72d St., New York City. (Age 25. Born New York City.) 1927 B. S., Mass. Inst. Tech. *TT 2: SP 2.* May 1923 to Sept. 1924 Student Engr., Asst. Foreman, Test Engr. (Diesel engines) and Tool Designer, Worthington Pump & Machinery Corporation. *TT 1.4: SP 1.4.* Summer 1926 Constr. Inspector, Charles-town Gas & Elec. Co. June 1927 to date drafting and designing, Ambursen Constr. Co., New York City. *TT 0.1: P 0.1. TT 3.5: SP 3.5.* Refers to J. B. Babcock, 3d, H. K. Barrows, W. M. Fife, C. M. Spofford, C. H. Sutherland.

## 1176

(1) **DILL, FREDERICK HAYES**, 729 Walnut St., Roselle Park, N. J. (Age 21. Born Portland, Me.) 1927 B. Sc. in Civ. Eng., Rutgers Univ. *TT 2: SP 2.* Summer 1925 with Bauer & Kling, Elizabeth, N. J., as Rodman, Chainman and office work on surveying. Summer 1926 with J. W. Higgins, Roselle Park, N. J., as Chf. of Party on surveying. Summer 1927 Detailer, American Bridge Co., Trenton, N. J., Graduate Asst. in Civ. Eng., Rutgers Univ. *TT 0.2: SP 0.2. TT 2.2: SP 2.2.* Refers to C. C. Armstrong, J. L. Bauer, J. W. Higgins, E. H. Rockwell, S. A. Stephenson, Jr.

## 1177

(4) **DOERR, CHARLES SCHUYLER**, 532 South Forty-Ninth St., Philadelphia, Pa. (Age 21. Born Philadelphia, Pa.) 1927 B. S. in C. E., Univ. of Pa. *TT 2: SP 2.* Refers to W. H. Chorlton, E. T. Grandlienard, E. L. Ingram, F. P. Witmer.

## 1178

(1) **DUFFY, LEO JOHN**, 4590 Suppyten Duyvil Parkway, New York City. (Age 36. Born Sydney, Australia.) 1922 B. E. in Civ. Eng., Sydney Univ. *TT 2: SP 2.* 1916 to 1919 with English Army in France and Egypt. 1911 to 1913 and Feb. 1922 to March 1923 with Public Works Dept., New South Wales, 3 years as Elec. Asst. to Chf. Elec. Engr., on design and supervision of light and power circuit in government buildings, and after Feb. 1922 Asst. Engr., Water Supply and Sewerage Branch, on supervision of dam erection and pipeline construction, surveying, designing tunnels, small bridges, etc. *TT 4.2: SP 3: P 1.2: RC 1.2.* April to Sept. 1923 in office of H. D. Dewell, San Francisco, designing concrete and steel structures. *TT 0.5: P 0.5: D 0.5.* Nov. 1923 to Dec. 1924 Concrete Designer with Thos. E. Murray, Inc., New York City, designing concrete foundations and superstructures for power houses, etc. *TT 1.2: P 1.2: D 1.2.* Dec. 1924 to date Chf. Engr., Structural Gypsum Corporation, New York City, estimating, designing and redesigning steel buildings, in charge of Eng. Dept. *TT 2.6: P 2.6: RC 2.6. TT 10.4: SP 5: P 5.4: RC 3.8: D 1.7.* Refers to H. D. Dewell, F. A. Ericson, M. A. Fouhy, G. A. Hughes, T. S. Williams.

## 1179

(2) **DUFFY, WILLIAM BERNARD**, 102 Stearns Ave., Lawrence, Mass. (Age 25. Born Lawrence, Mass.) 1923 A. B., Boston Coll. 1927 B. S., Mass. Inst. Tech. *TT 2: SP 2.* Refers to W. M. Fife, P. W. Norton, C. M. Spofford.

## 1180

(9) **DYSINGER, MYRON ALLEN**, 5 Circular St., Tiffin, Ohio. (Age 25. Born Tiffin, Ohio.) 1924 B. C. E., Ohio State Univ. *TT 2: SP 2.* Sept. 1924 to Jan. 1925 Asst. Engr., City of Cleveland, Ohio, drafting and designing sewage disposal, Inspector (Field) of grade crossing elimination. *TT 0.3: SP 0.3.* Jan. 1925 to date Draftsman, Truscon Steel Co., drafting, designing and estimating reinforcing steel, steel joists, steel sash and standard industrial buildings. *TT 2.5: SP 2.5.* *TT 4.8: SP 4.8.* Refers to J. M. Heffelfinger, Jr., E. D. Kell, C. T. Morris, C. E. Sherman.

## 1181

(10) **EGGLESTON, STEPHEN ARCHER**, Carrollton, Miss. (Age 56. Born Acona, Miss.) 1893 to 1895 student, Massachusetts Agricultural and Mechanical Coll. *TT 0.7: SP 0.7.* 1888 to 1891 Rodman, Rock Island R. R. and Louisville, New Orleans & Texas R. R. *TT 4: SP 4.* 1891 to 1893 Rodman, Inspector and Instrumentman, 1895 to 1899 Inspector and Res. Engr., 1904 Res. Engr., and 1915 to 1923 Inspector and Res. Engr., on Mississippi River Levees. *TT 14: SP 2: P 12: RC 1.* 1899 to 1902 in private business. 1902 to 1904 Res. Engr. and Asst. Engr., Missouri Pacific R. R., in charge of location and construction. *TT 2: P 2: RC 2.* 1905 Res. Engr., Southern R. R., in Mississippi. *TT 1: P 1: RC 1.* 1905 to 1915 not on engineering work. 1923 to 1926 private engineering on local drainage and highway work in Mississippi. *TT 3: P 3: RC 3.* 1927 to date Res. Engr., St. Louis & San Francisco R. R., in Alabama; at present Investigating Engr. for Associated Gen. Contrs. of America. *TT 0.5: P 0.5.* *TT 24.2: SP 6.7: P 18.5: RC 7.* Refers to W. E. Elam, C. W. Okey, W. J. Shackelford, W. L. Thompson, A. M. Todd, C. H. West.

## 1182

(4) **ELIAS, GEORGE ANDREW**, 3055 Chatham St., Philadelphia, Pa. (Age 21. Born Philadelphia, Pa.) 1927 B. S. in C. E., Drexel Inst. *TT 2: SP 2.* Summer 1923 Detailer of steel sash, David Lupton & Sons, Inc., Philadelphia, Pa. June 1924 to Jan. 1925 Machinist Helper, Wm. Cramp Ship & Engine Bldg. Co., Philadelphia. *TT 0.5: SP 0.5.* March-June 1925 and Jan. to March 1926 Chainman, Pennsylvania R. R. Co., surveying, drafting, computing, etc. Summer 1926 Topographical Draftsman, computing, etc., Bureau of Surveys, Philadelphia, 5th Survey Dist. *TT 0.7: SP 0.7.* *TT 3.2: SP 3.2.* Refers to J. A. Baker, H. L. Bowman.

## 1183

(6) **EN EARL, FRANK ALLAN**, 123 Third St., Ambridge, Pa. (Age 26. Born Longmont, Colo.) 1927 B. S. in C. E., Univ. of Mich. *TT 2: SP 2.* Refers to J. H. Cissel, L. M. Gram, W. C. Hoad, R. H. Sherlock.

## 1184

(15) **ERSKINE, ALEXANDER MADISON**, 202 East Locust St., San Antonio, Tex. (Age 25. Born San Antonio, Tex.) 1924 B. S., Agri. and Mech. Coll. of Tex. *TT 2: SP 2.* Nov. 1924 to date with The Terrell Bartlett Engrs., Inc., San Antonio, Tex., as Draftsman, Designer, Asst. Res. Engr. (11/10 years) and Res. Engr. (about 1 year) on state highway surveys and plans, sewage-disposal, sewage-collecting and water-works systems, hydro-electric power plant, office and field work, etc. *TT 2.7: SP 0.5: P 2.2: RC 1.7: D 0.3.* *TT 4.7: SP 2.5: P 2.2: RC 1.7: D 0.3.* Refers to C. T. Bartlett, J. S. Fenner, F. B. Ogle.

## 1185

(1) **ERSKINE, FRANK GRAVES**, Gillespie St., Jackson, Miss. (Age 20. Born Louisville, Ky.) 1927 B. E., Univ. of Miss. *TT 2: SP 2.* Refers to M. L. Culley, J. H. Dorroh.

## 1186

(11) **EVANS, WALTER THOMAS**, 3825 South Hope St., Los Angeles, Cal. (Age 39. Born Wales, Wis.) 1907 to 1910 student, Univ. of Illinois (2 years) and Illinois Wesleyan Univ. (1 year). *TT 0.7: SP 0.7.* June 1910 to Jan. 1924 with Chicago & Alton R. R., until Jan. 1914 as Rodman and Instrumentman, from Jan. 1914 to Jan. 1916 Asst. Engr. on maintenance and construction at Bloomington, Ill. and after Jan. 1916 Chf. Draftsman at Chicago, Ill., in charge of mapping entire system, land schedules and appraisal; Pilot Engr. for Interstate Commerce Comm. parties on Federal valuation; design of yards and terminals. *TT 13.5: SP 3.5: P 10: RC 10: D 2.* Jan. 1924 to Jan. 1927 Director, Secy. and Plant Supt., California Crushed Fruit Corporation, Los Angeles, Cal., some engineering experience in connection with additions to plant, installation of new machinery, etc. May 1927 to date Draftsman, County Surveyor's office, Los Angeles, planning new streets and highways. *TT 0.3: P 0.3: D 0.3.* *TT 14.5: SP 4.2: P 10.3: RC 10: D 2.3.* Refers to G. G. Bothum, I. C. Brower, A. Jones, H. M. Jones, R. I. Randolph, J. W. Reid.

## 1187

(15) **FLANAKIN, HUBERT AGEE**, Box 131, Minden, La. Graduating student awarded Louisiana Section prize. (Age 22. Born Big Sandy, Tex.) 1927 B. C. E., La. State Univ. and Agri. and Mech. Coll. *TT 2: SP 2.* Jan. 1924 to June 1927 with Louisiana Highway

Comm., as Student Draftsman (while attending Univ.), June 1924 to Sept. 1925 Draftsman and Instrumentman, and summer 1926 Res. Engr. on construction; from June 1924 to Sept. 1925 also Draftsman, Instrumentman, Inspector and Asst. Office Engr., City of Minden, La., on location and construction of reinforced concrete streets, estimates, assessments, etc. *TT 1.2: SP 1.2.* July to Oct. 1923 Rodman and Draftsman, and June 1927 to date Res. Engr. on construction, Webster Parish Highway Dept. *TT 0.2: SP 0.2. TT 3.4: SP 3.2: P 0.2.* Refers to T. W. Atkinson, J. H. Bateman, N. W. Bowden, W. T. Hogg, F. A. Muth, B. W. Pegues.

## 1188

(1) **FLETCHER, BOB JAKE**, Care, R. W. Hebard & Co., San Salvador, El Salvador. (Age 39. Born Parrott, Ga.) 1914 B. S. C. E., Univ. of Ga. *TT 2: SP 2.* July 1914 to March 1915 Rodman, Panama Canal, 3 months in drafting room. *TT 0.6: SP 0.6.* March 1915 to Oct. 1916 Instrumentman on construction of Balboa dry dock and coaling plant. *TT 1.6: SP 1.6.* Oct. 1916 to Feb. 1922 with Panama Canal as follows: Oct. 1916 to June 1917 Instrumentman, Bldg. Div., on location and layout of buildings, and surveys; June 1917 to May 1919 Instrumentman and Jun. Engr., in charge on construction of submarine base at Coco Solo, including docks, buildings and railroad tracks; May 1919 to July 1920 Instrumentman, in charge of engineering work for construction of army post at Ft. Clayton, Canal Zone; July 1920 to Sept. 1921 Jun. Engr., Fortification Div., in charge of engineering for fortifications at Atlantic entrance of the Canal, consisting of extension of fire-control system, erection of anti-aircraft guns, etc.; Sept. 1921 to Feb. 1922 Jun. Engr., Mun. Eng. Div., general municipal engineering work in Balboa and Panama City. *TT 5.1: P 5.1.* Feb. 1922 to July 1923 with R. W. Hebard & Co., Inc., Panama, until May 1923 as Chf. Draftsman, making estimates on highway projects and designing bridges, then Office Engr. in charge of estimating and designing on highway contract with Republic of Panama (approx. 175 km.) *TT 1.3: P 1.3: RC 1.1: D 1.3.* July 1923 to July 1925 Chf. Draftsman, Junta Central de Caminos, Republic of Panama, designed reinforced concrete dock at Mensabe, Panama, and reinforced concrete bridges, bridge abutments and piers for Panama highways. *TT 2: P 2: D 2.* July to Dec. 1925 Jun. Engr., Panama Canal, in charge of engineering and inspection on Miraflores (Canal Zone) Power Plant. *TT 0.4: P 0.4: RC 0.4: D 0.4.* Dec. 1925 to date Office Engr., R. W. Hebard & Co., Inc., and R. Kellhauer, San Salvador, El Salvador, in charge of estimating and bridge designing on highway contract with Republic of El Salvador. *TT 1.5: P 1.5: RC 1.5: D 1.5. TT 14.5: SP 4.2: P 10.3: RC 3: D 5.2.* Refers to M. E. Gilmore, T. Guardia, R. C. Hardman, E. S. Randolph, R. K. West, E. W. Wilson, W. F. Wirth.

## 1189

(14) **FORDYCE, JOHN RISON**, Box 346, Hot Springs, Ark. (Age 57. Born Huntsville, Ala.) 1892 Engr. of Mines, Washington Univ., St. Louis, Mo. *TT 2: SP 2.* July to Dec. 1892 Assayer, E. & E. Mine, Baker City, Ore. *TT 0.5: P 0.5.* Dec. 1892 to Sept. 1893 Supt. of Constr., Hot Springs St. R. R. Co. *TT 0.7: P 0.7: RC 0.7.* Sept. 1893 to July 1894 at Harvard Univ. Graduate School. *TT 0.8: SP 0.8.* Sept. 1894 to Sept. 1896 Pres., Southern Cotton Co., Little Rock, Ark., designing and testing round bale cotton. *TT 2: P 2: D 2.* Sept. 1896 to Sept. 1897 Supt., Thomas Mfg. Co., Little Rock. *TT 1: P 1: RC 1.* Sept. 1897 to Jan. 1901 Mgr., Pine Bluff (Ark.) Cotton Oil Co. *TT 2.2: P 2.2: RC 2.2.* Jan. 1901 to Jan. 1909 Engr., successively with Little Rock Gln & Machinery Co. (2 years), Thomas-Fordyce Mfg. Co. (4 years), and Atlantic Compress Co. and Gulf Compress Co. (2 years). *TT 8: P 8: RC 4.* Jan. 1909 to Jan. 1912 Pres., Thomas-Fordyce Mfg. Co. *TT 3: P 3: RC 3.* Jan. 1912 to May 1917 Cons. Engr. at Little Rock, on construction of cotton compresses. *TT 5.2: P 5.2.* May 1917 to Sept. 1918 with U. S. Army, as Major of Engrs. Constr. Q. M. at Camp Pike, and St. Louis Clothing Depot, and (2 months) Student at Camps Lee and Humphrey, Va. *TT 1.4: SP 0.2: P 1.3: RC 1.3.* Sept. 1918 to May 1919 Terminal Engr., Mississippi Warrior River Service. *TT 0.7: P 0.7: D 0.7.* Nov. 1919 to date Cons. Engr. at Hot Springs, Ark.; had charge of construction of U. S. Free Bath House, Quapaw, and Lamar bath houses, location of Arkansas Power & Light Co., R Emmel dam and other surveys for additional dams; Constr. Engr., New Arlington Hotel, Hot Springs. *TT 8: P 8: RC 8. TT 35.8: SP 3: P 32.8: RC 20.3: D 2.7.* Refers to W. D. Dickinson, W. E. Ford, A. M. Lund, D. A. MacCrea, R. C. Marshall, Jr., D. H. Sawyer.

## 1190

(1) **FREIRE, MANUEL ALONSO**, Consulate of Uruguay, 17 Battery Pl., New York City. (Age 28. Born Montevideo, Uruguay.) 1927 C. E., Rens. Pol. Inst. *TT 2: SP 2.* Refers to E. R. Cary, L. W. Clark, T. R. Lawson.

## 1191

(1) **GARCIA, CELSO AUGUSTO**, Guajataca Dam, Quebradillas, Porto Rico. (Age 37. Born Utuado, Porto Rico.) April 1908 to Oct. 1912 Chainman, Rodman, Instrumentman, office work, and Inspector of construction, Guayama Irrigation Service, Dept. of Interior,

Porto Rico. *TT 4.5: SP 3.5: P 1: RC 1.* Oct. 1912 to Aug. 1914 Asst. Engr., Porto Rico Ry., Light & Power Co., in charge of double track bridge construction, and on construction of Comerio Dam (Ambursen type) and location and construction of transmission line. *TT 1.8: P 1.8: RC 1.8.* Nov. 1914 to Dec. 1915 irrigation work and surveys for several sugar centrals. *TT 1.1: P 1.1: RC 1.1.* Feb. 1916 to June 1918 Asst. Engr. in Chg. on irrigation investigations, until Oct. 1916 for Lolza Sugar Co., then for Isabela Irrigation Project, in charge of irrigation investigations. *TT 2.4: P 2.4: RC 2.4.* July to Dec. 1918 at Third Officers' Training Camp and Lieut., U. S. Army. *TT 0.5: SP 0.5.* Feb. to Oct. 1919 Engr. in Chg., Juncos Central Co., on land survey and irrigation investigations. *TT 0.7: P 0.7: RC 0.7: D 0.4.* Oct. 1919 to July 1925 with Central San Luis, Santo Domingo, Republica Domingo, as Engr. in charge of location and construction of railroad (53 km.), including erection of two steel bridges and eight wooden-pile bridges, also Field Mgr. and Asst. Gen. Mgr. *TT 5.8: P 5.8: RC 5.8: D 5.8.* Sept 1925 to date with Isabela Irrigation Service, first as Res. Engr., on location and construction of diversion canal, and since Nov. 1925 Supt. of Constr., Guajataca Dam. *TT 2: P 2: RC 2.* *TT 18.9: SP 4: P 14.9: RC 15.9: D 6.2.* Refers to M. Font, R. A. Gonzalez, R. M. Snell, E. Totti y Torres, F. Towle, A. A. Van Petten.

## 1192

(13) GARNETT, ERNEST EDWIN, Jr., 3052 Thorn St., San Diego, Cal. (Age 23. Born San Angelo, Tex.) 1927 A. B. in Civ. Eng., Stanford Univ. *TT 2: SP 2.* Jan. to Sept. 1922 Rodman and Chainman and Jan. to May 1925 Transitman with J. C. Allison, Calexico, Cal., on surveys. *TT 1.2: SP 1.2.* Summer 1923 Chainman, San Diego & Arizona Ry. Summer 1925 Tracer, Southern Pacific R. R. of Mexico. Summer 1926 Draftsman and Calculator, South Coast Land Co., Carlsbad, Cal., on subdivision work. *TT 0.3: SP 0.3: TT 3.5: SP 3.5.* Refers to J. C. Allison, C. E. Cate, C. Moser, L. B. Reynolds, C. B. Wing.

## 1193

(5) GLYNN, THEODORE WILLIAM, Care, Pulaski Eng. Works, Pulaski, Va. (Age 24. Born Iola, Kans.) 1927 B. S. C. E., Ohio State Univ. *TT 2: SP 2.* Oct. to Dec. 1923 with Standard Paving Co., Tulsa, Okla., and City of Tulsa as Rodman for Res. Engr. and Asst. to Contr.'s Supt. on tunnel construction at Tiawah, Okla. *TT 0.2: SP 0.2.* Summer 1926 Res. Engr. on construction of steel fabricating plant at Pulaski, Va., and June 1927 to date on engineering design and estimating in office of Pulaski Eng. Works, Inc., all for Arthur G. McKee & Co., Cleveland, Ohio. *TT 0.2: SP 0.2.* *TT 2.4: SP 2.4.* Refers to C. T. Morris, J. C. Prior, J. R. Shank, R. C. Sloane.

## 1194

(1) GONGORA PAREJA, ENRIQUE, 741 Lampa St., Lima, Peru. (Age 28. Born Lima, Peru.) 1920 C. E., Escuela de Ingenieros de Lima. *TT 2: SP 2.* Summer 1919 Surveyor, San Nicolas Sugar State, Supe Valley, Peru, and (1 month) Transitman, Paramonga Sugar State, Pativilca Valley, Peru. March 1920 to April 1924 successively Surveyor, Locating Engr., Chf. Draftsman and Asst. Res. Engr., Comision de Irrigacion de las Pampas del Imperial Peruvian Govt., Canete Valley, Peru, on canal location, structure designing and construction of 6 500-hectare Imperial Irrigation Project. *TT 4.1: SP 1.5: P 2.6: RC 0.5: D 2.6.* May to Sept. 1924 with Fred. T. Ley Co., Lima, Peru, as Asst. Designer and Superv. Engr., Gran Hotel Bolivar Bldg. (5 stories reinforced concrete). *TT 0.5: P 0.5: RC 0.5: D 0.5.* Oct. 1924 to date successively Chf. Draftsman, Res. Engr. and Superv. Engr. in Comision de Irrigacion de Plura y Lambayeque, Peruvian Govt., Pimentel, Peru, on canal, headworks and many other hydraulic structures, roads and bridges, pipe-lines and hydro-electric power station design and construction, on 110 000 hectare irrigation project (under construction). *TT 2.9: P 2.9: RC 1.5: D 2.7.* *TT 9.5: SP 3.5: P 6: RC 2.5: D 5.8.* Refers to A. B. Bentzon, F. Carbajal, P. Garcia, L. A. Guevara Morales, C. W. Sutton.

## 1195

(5) GOSSETT, FRANKLIN RICE, U. S. Coast and Geodetic Survey, Washington, D. C. (Age 21. Born Memphis, Tenn.) 1927 B. S. in C. E., Univ. of Tenn. *TT 2: SP 2.* June 1927 to date Deck Officer, U. S. Coast and Geodetic Survey. *TT 0.2: SP 0.2.* *TT 2.2: SP 2.2.* Refers to N. W. Dougherty, F. L. Peacock.

## 1196

(5) GRANOFF, DAVID, 4502 Fernhill Ave., Baltimore, Md. (Age 20. Born Baltimore, Md.) 1926 B. E., Johns Hopkins Univ *TT 2: SP 2.* Summer 1924 Draftsman, United Rys. & Elec. Co. Summer 1925 Jun. Draftsman, Dept. of City Transit, Philadelphia, Pa., drafting, estimating, etc. June 1927 to date Jun. Asst. Engr., Dept. of Public Work, Div. of Highways, New York State, drafting and field work on highway construction. *TT 0.2: SP 0.2.* *TT 2.2: SP 2.2.* Refers to T. F. Comber, Jr., J. H. Gregory, J. T. Thompson, M. V. Zabab.



## 1197

(4) GREEN, ROBERT REEDER, Route 55, Trenton, N. J. (Age 23. Born Trenton, N. J.) 1927 B. S. in C. E., Drexel Inst. Summers 1924 and 1925 Transitman with C. S. Sincerbeaux, Trenton, N. J. June to Dec. 1926 Tracer and Detailer, American Bridge Co., Trenton Plant. TT 2: SP 2. Refers to H. L. Bowman, S. J. Leonard.

## 1198

(12) GREENE, EDWARD LLOYD, Care, J. D. Hanley, Kelso, Wash. Graduating student awarded Spokane Section prize. (Age 29. Born Dubois, Pa.) 1927 B. S. in Civ. Eng., State Coll. of Wash. TT 2: SP 2. Summer 1921 Inspector of concrete curbs and sidewalks, City of Pullman, Wash. Summer 1922 Chainman, Washington State Highway Comm., inspecting, computing, drafting, etc. May 1923-Sept. 1924 Asst. Office Engr. and Office Engr., Dept. of Sewers and Water, Longview (Wash.) Co., office records, progress, layout and design of sewers and water-works, including sewage-pumping plant. TT 1.4: SP 0.4. P 1: RC 0.5: D 0.5. Oct. 1924 to Oct. 1926 with J. D. Hanley, Gen. Contr., until Dec. 1925 as Asst. Engr. on costs, purchasing, estimating, etc., and after Jan. 1926 Constr. Engr., superintending field and office work, on sewer and water-works construction, including sewer and water mains, reservoir, filtration plant. TT 2: P 2: RC 2. TT 5.4: SP 2.4: P 3: RC 2.5: D 0.5. Refers to J. W. Cunningham, A. H. Labsap, J. R. McAuliffe, C. Myers, H. E. Phelps, O. L. Waller.

## 1199

(15) GREER, DEWITT CARLOCK, Athens, Tex. (Age 25. Born Shreveport, La.) 1923 B. S. in Civ. Eng., Agri. and Mech. Coll. of Tex. TT 2: SP 2. June 1923 to Sept. 1924 Asst. Supt., Cocke & Turner Constr. Co. of Marshall, Tex., on highway construction in Camp County, Tex. TT 1.2: SP 0.5: P 0.7: RC 0.7. Sept. 1924 to June 1925 State Parks Engr., Texas State Parks Board, laying out and constructing state parks at Boerne, Fredericksburg, Eastland, etc. TT 0.8: P 0.8: RC 0.8: D 0.5. June 1925 to Jan. 1926 Chf. Engr. for Homer L. Fry, Landscape Archt., Dallas, Tex., laying out and constructing city subdivisions, roads, golf courses, etc. TT 0.6: SP 0.2: P 0.4: RC 0.4: D 0.1. Jan. 1926 to date City Engr., Athens, Tex., on street paving, extensions of water (3 miles) and sewer (1 mile) systems, and a lake dam (\$10 000). TT 1.7: P 1.7: RC 1.7: D 0.6. TT 6.4: SP 2.7: P 3.7: RC 3.7: D 1.1. Refers to B. Bird, E. Couch, J. W. Porter, W. J. Powell, J. J. Richey, N. P. Turner.

## 1200

(1) GUERIN, THOMAS GERARD, 1068 Woodycrest Ave., New York City. (Age 22. Born Whitestone, N. Y.) 1927 B. S. in C. E., Cooper Union Inst. Tech. TT 2: SP 2. March 1924 to Oct. 1925 Inspector of dredging and Surveyor, U. S. Engr. Office, Second Dist., New York City, supervising dredging, acting as Instrumentman, Recorder, Leadsman, Chainman on hydrographic surveys for river and harbor improvements, New York Harbor. TT 1.8: SP 1.8. June 1927 to date Instrumentman, Road Dept., Village of Rye, N. Y., on survey of roads, establishment of grades and general supervision of construction. TT 0.2: SP 0.1: P 0.1: D 0.1. TT 4: SP 3.9: P 0.1: D 0.1. Refers to H. R. Codwise, F. E. Foss, G. Morrison, E. B. Snell, J. P. J. Williams.

## 1201

(4) GUYER, GEORGE ALLEN, 41 West Locust St., Mechanicsburg, Pa. (Age 23. Born Mechanicsburg, Pa.) 1927 B. S., Pa. State Coll. TT 2: SP 2. Sept. 1924 to Sept. 1925 Rodman and June 1927 to date Instrumentman, Pennsylvania State Highway Dept., on surveys, etc. TT 1.2: SP 1.2. TT 3.2: SP 3.2. Refers to R. O'Donnell, R. L. Sackett, E. D. Walker.

## 1202

(1) GUPTA, BABU LAL, Rampur State, U. P., India. (Age 34. Born Jansath, India.) 1912 Sub-Engr., Thomason Coll. of Civ. Eng., Rookee, India. July 1912 to July 1913 Apprentice Overseer, first on Lower Ganges Canal Head Works, and after Jan. 1913 on construction of Ganges Dam (masonry weir). TT 1: SP 1. July 1913 to Sept. 1917 Overseer, until Aug. 1915 in charge of survey parties on reservoir projects, etc., then in charge of town planning at Lucknow City and after Jan. 1917 on survey of Gursel Canal. TT 4.1: SP 1.8: P 2.3: D 2.3. Oct. 1917 to Oct. 1918 Officer in charge of Bundhi surveys for storage reservoirs (earthen dams). TT 1: P 1: D 1. Nov. 1918 to Dec. 1921 Subdivisional Officer in charge of Ken Canal Subdivision (channels about 200 miles long) and of survey party on storage reservoir (earthen dam) projects. TT 3.2: P 3.2: RC 3.2: D 3.2. Dec. 1922 to date with Public Works Dept., Rampur State, until Dec. 1923 as Asst. Engr. in charge of construction of hill road in Nainital Dist. and other repair works; Dec. 1923 to Nov. 1926 Personal Asst. to Minister of Dept.; since May 1924 Executive Engr., Khashagh, Rampur State; work included construction of two palaces (80 000 and 800 000 Rs.), two parks



(about 150 000 Rs.) and additions and alterations to palaces (50 000 Rs.) TT 3.8: P 3.8: RC 3.1: D 3.1. TT 14.2: SP 2.9: P 11.3: RC 7.3: D 10.6. (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

## 1203

(14) HACKMASTER, GLEN HOBART, Independence, Kans. (Age 30. Born in Montgomery Co., Kans.) Feb. 1919 to June 1922 with Western States Portland Cement Co., (Atlas Portland Cement Co.), Independence, Kans., until Feb. 1921 as Draftsman, on tracing and detail drawing, then on field work as Asst. to Constr. Supt. and Instrumentman. TT 3.3: SP 3.3. June 1922 to date with City of Independence, until Jan. 1923 as Draftsman, Instrumentman and Inspector, then Asst. City Engr. in charge of field work as Asst. on design and construction of sewage-disposal plant (2 000 000 gal. daily), pavements, sanitary and storm sewers, and since May 1924 as City Engr. has had responsible charge of design and construction of sewage-pumping plant (500 000 gal. daily, cost \$10 000), storm and sanitary sewers (\$56 300), pavement (\$280 000), two swimming pools (\$20 000 each), various park improvements, etc. TT 5.2: SP 0.5: P 4.7: D 3. TT 8.5: SP 3.8: P 4.7: RC 3.2: D 2. Refers to E. Boyce, H. W. Crawford, L. H. Enslow, C. A. Haskins, A. A. Laird, J. D. Mohler.

## 1204

(6) HANSEN, JOHN HALVOR, 723 Third St., Ambridge, Pa. (Age 23. Born Menominee, Mich.) 1927 B. S. in C. E., Univ. of Mich. TT 2: SP 2. Refers to J. H. Cissel, L. M. Gram, W. C. Hoad, R. H. Sherlock, R. S. Swinton.

## 1205

(3) HANSON, CLARENCE WILLIAM, 19 College View Ave., Poughkeepsie, N. Y. (Age 26. Born Mason City, Iowa) 1923 B. S. in C. E., Iowa State Coll. TT 2: SP 2. June 1923 to Sept. 1924 Asst. Engr. for Ralph Modjeski, inspection, layout and estimates on improvement of Douglas St. Bridge, Omaha, Nebr. TT 1.3: SP 1.3. Sept. to Dec. 1924 Rigger, Phoenix Utilities Co., Omaha, on addition to municipal power house, on structural steel erection. TT 0.2: SP 0.2. Dec. 1924 to June 1925 Res. Engr. for Modjeski & Masters, at Harrisburg, Pa., inspection, layout and estimates on improvement of Market St. Bridge. TT 0.5: P 0.5: RC 0.5. June 1925 to date Chf. Asst. to Res. Engr. for Modjeski & Moran, on erection of Mid-Hudson Bridge at Poughkeepsie, N. Y., in responsible charge, as Asst., of inspection, layout and estimates. TT 2.2: P 2.2: RC 2.2. TT 6.2: SP 3.5: P 2.7: RC 2.7. Refers to M. B. Case, R. H. Findley, A. H. Fuller, L. S. Hulburd, F. M. Masters, R. Modjeski, G. B. Woodruff.

## 1206

(13) HANSON, ROBERT ANDREW, 916 Ensenada Ave., Berkeley, Cal. (Age 37. Born Minneapolis, Minn.) Feb. 1907 to April 1912 Draftsman, Minneapolis (Minn.) Steel & Machinery Co. TT 5.2: SP 5.2. May 1912 to April 1914 detailing and checking, American Bridge Co., Gary, Ind. TT 1.9: SP 1.9. April to May 1914 and March to Dec. 1916 Draftsman, and June 1919 to Nov. 1921 Structural Engr. with H. J. Brunnier, Cons. Engr., San Francisco, Cal. TT 3.4: SP 1: P 2.4: D 2.4. June 1914 to March 1916 Draftsman with Badt & Fisher, Cons. Engr., San Francisco. TT 1.7: SP 1.7. Jan. 1917 to Sept. 1918 Structural Engr. Bethlehem Shipbuilding Corporation, San Francisco. TT 1.7: SP 0.7: P 1: D 1. Sept. 1918 to June 1919 with Tank Corps, U. S. Army. Nov. 1921 to Aug. 1926 Structural Engr. in charge of office for A. P. Fisher, Cons. Engr., San Francisco. TT 4.8: P 4.8: RC 3: D 4.8. Aug. 1926 to date Structural Engr. in charge and Secy., Mortenson Constr. Co., San Francisco. TT 1: P 1: RC 1: D 0.5. TT 19.7: SP 10.5: P 9.2: RC 4: D 8.7. Refers to H. W. Bollin, H. J. Brunnier, T. F. Chace, A. P. Fisher, I. Gottheim, F. A. Johnson, R. F. Lyman.

## 1207

(13) HART, ORVILLE HAVEN, 116 South Ninth St., San Jose, Cal. (Age 19. Born Hollister, Cal) 1927 A. B. in Civ. Eng., Stanford Univ. TT 2: SP 2. Refers to C. Moser, L. B. Reynolds, C. B. Wing.

## 1208

(6) HARTUNG, CHARLES ALBERT, 1655 Shady Ave., Pittsburgh, Pa. (Age 23. Born Ellwood City, Pa.) 1927 B. S., Carnegie Inst. Tech. TT 2: SP 2. Refers to F. M. McCullough, C. B. Stanton, H. A. Thomas.

## 1209

(6) HAUG, RAGNAR, 439 Biddle Ave., Wilkinsburg, Pa. (Age 27. Born Fredrikstad, Norway.) 1923 Diplomingeniör, Norwegian Inst. Tech. TT 2: SP 2. May 1924 to April 1925 Draftsman, Blum, Weldin Co., Pittsburgh, Pa., surveying, street and sewer work. TT 0.9: P 0.9. April 1925 to Jan. 1926 with Pennsylvania R. R. Co., Pittsburgh office, on track layouts, design of concrete culverts, abutments and piers. TT 0.7: P 0.7: D 0.5. Jan. to Aug. 1926 Draftsman, Jones & Laughlin Steel Corporation, Pittsburgh, structural

steel detailing. *TT 0.6: P 0.6.* Aug. 1926 to date Draftsman, Koppers Co., Pittsburgh, structural drafting and checking. *TT 1: P 1.* *TT 5.2: SP 2: P 3.2: D 0.5.* Refers to L. P. Blum, F. J. Evans, F. M. McCullough, C. E. Mollard, W. A. Weldin.

## 1210

(1) **HAUGH, PATRICK JOHN**, O'Brien's Bridge, Clare County, Ireland. (Age 35. Born Doonbeg, Ireland.) 1907-1912 student at French Coll. and Univ. Coll., Dublin, Ireland. Oct. 1918 to Feb. 1920 Rodman, Chainman, Recorder, Planetableman and Computer, and March to April 1921 Rodman, U. S. Reclamation Service. *TT 1.4: SP 1.4.* Feb. 1920 to Jan. 1921 with Wyoming State Highway Dept. as Instrumentman and Inspector on highway construction. *TT 0.8: SP 0.8.* July 1921 to June 1926 with Standard Oil Co. (Indiana) as follows: July to Nov. 1921 Rodman; Nov. 1921 to April 1922 Engr. in charge of construction of small oil refinery; April to July 1922 Meterman, computation of daily gas and steam consumption, flue gas analysis; July 1922 to April 1923 Designing Draftsman, designs of pressure vessels, reinforced concrete structures, gas-collecting systems, heat transfer and expansion problems; April 1923 to Feb. 1924 Chf. of Field Party on sidewalk and pavement construction, property surveys, plant layout and construction; Feb. 1924 to June 1926 Designing Draftsman on steel mill buildings and stacks, framed timber structures, reinforced concrete buildings, using slope deflection, checking designs, heat transfer investigations. *TT 4.8: SP 0.8: P 4: RC 3.4: D 1.5.* Aug. 1926 to date Asst. Engr., Siemens Bauunion, Shannon power scheme, Limerick, Ireland, Shannon discharges with current meter, navigation channel and rock excavations, weir foundation, camp construction. *TT 1: P 1: RC 1.* *TT 8: SP 3: P 5: RC 3.5: D 1.5.* Refers to C. H. Bowman, J. B. Cleary, H. D. Comstock, F. C. Emerson, E. W. Fassett, W. H. Fisher.

## 1211

(1) **HELD, JACK SCHLOSS**, 299 Clinton Ave., Newark, N. J. (Age 20. Born Newark, N. J.) 1927 C. E., Rens. Pol. Inst. *TT 2: SP 2.* Refers to E. R. Cary, L. W. Clark, T. R. Lawson, P. C. Ricketts, W. W. Rousseau.

## 1212

(15) **HENDERSON, JOHN BLYTHE HALTON**, 3124 Ave. R, Galveston, Tex. (Age 22. Born St. Louis, Mo.) 1927 B. S. in C. E., Rice Inst. *TT 2: SP 2.* Refers to L. B. Ryon, Jr., R. B. Siler.

## 1213

(7) **HICKS, STUART FENN**, 287 Blunk St., Plymouth, Mich. (Age 24. Born Conneaut, Ohio.) 1927 B. S. in Civ. Eng., Univ. of Mich. *TT 2: SP 2.* June 1927 to date Asst. Village Engr., Plymouth, Mich., surveying, drafting and some sewer design. *TT 0.1: SP 0.1.* *TT 2.1: SP 2.1.* Refers to W. C. Hoad, R. H. Sherlock, R. S. Swinton, C. O. Wisler.

## 1214

(3) **HILBURGER, ELMER AUGUST**, 173 Roehrer Ave., Buffalo, N. Y. (Age 20. Born Buffalo, N. Y.) 1927 B. S. in C. E., Univ. of Mich. June 1927 to date with Lackawanna Steel Cons. Corporation, Buffalo, N. Y. *TT 2: SP 2.* Refers to J. H. Cissel, L. M. Gram, W. C. Hoad, H. E. Riggs, R. H. Sherlock.

## 1215

(2) **HILL, HENRY FRANCIS, Jr.**, 2500 Custom House, Boston, Mass. (Age 28. Born North Whitefield, Me.) 1922 B. S., Univ. of Me. *TT 2: SP 2.* Summers 1917-1919 Asst. Engr. with City Engr., Augusta, Me., acting as Chainman, Rodman, Instrumentman, Inspector and Supervisor on engineering and construction. Summer 1920 Office Engr. on highway plans, design of concrete culverts, etc., summer 1921 Instrumentman and Inspector on concrete highway construction and June-Dec. 1922 Engr. on bituminous macadam highway construction, highway location and plans, and on engineer's estimates, all for State Highway Comm., Augusta, Me. *TT 0.6: SP 0.3: P 0.3: RC 0.2.* Jan. 1923 to date with U. S. Geological Survey, Water Resources Branch, Boston, Mass., until June 1927 as Jun. Engr. collecting field data, etc.; from Jan. 1923 to Oct. 1924 under supervision of Dist. Engr., then Acting Office Engr. and Acting Asst. Engr., being responsible for collection and computation of field data in New England States, exclusive of Maine, and since July 1927 Asst. Engr. *TT 4.5: P 4.5: RC 1.8.* *TT 7.1: SP 2.3: P 4.8: RC 2.* Refers to J. B. Babcock, 3d, H. S. Boardman, H. F. Hill, H. B. Kinnison, C. H. Pierce, P. D. Sargent, P. A. Shaw.

## 1216

(4) **HORN, WILLIAM CHARLES, Jr.**, Box 577, Lock Haven, Pa. (Age 21. Born Galeson, Pa.) 1927 B. S., Pa. State Coll. *TT 2: SP 2.* Refers to E. A. Bryden, Jr., E. O. Walker.

## 1217

(9) **HOSE, HAROLD CLARENCE**, 3442 Brookline Ave., Cincinnati, Ohio. Graduating student awarded Cincinnati Section prize. (Age 23. Born Massillon, Ohio.) 1927 C. E., Univ. of Cincinnati. July 1922 to June 1927 (co-operative work while student) until Oct. 1923 successively as Laborer, Union Gas & Elec. Co., Sub-Inspector, U. S. Engrs., acting

as Rodman and Inspector of concrete and piling, Ohio River Dam No. 38 (Aug. 1922 to Jan. 1923), Carpenter-Helper, Ohio Bldg. Co., and Transitman, West Virginia Highway Comm.; Oct. 1923 to April 1926 Asst. Engr., Rapid Transit Comm., Cincinnati, Ohio, on surveys, layout and inspection of concrete bridges and walls, drawing, tracing and estimating; April 1926 to June 1927 Surveyman, U. S. Engrs., in charge on layout and inspection, building and raising concrete walls, raising steel gates, building esplanade, etc., minor design, Ohio River Dam No. 41. TT 2: SP 2. Refers to H. B. Luther, F. L. Raschig.

1218

(14) **HOULEHAN, CHARLES CONNELL**, 1009½ Van Trump Court, Kansas City, Mo. (Age 24. Born Houston, Tex.) 1927 B. S. in C. E., Univ. of Ill. TT 2: SP 2. Refers to H. E. Babbitt, H. Cross, J. J. Doland, W. C. Huntington, M. S. Ketchum, T. D. Mylrea, C. C. Willey.

1219

(15) **KARL, FREDERICK JOHN**, Care, Raymond Concrete Pile Co., Slidell, La. (Age 27. Born New Bedford, Mass.) May to Aug. 1919 with Leary & Walker, Mill Engrs., New Bedford, Mass., tracing and drafting on cotton mills, plans. TT 0.2: SP 0.2. Aug. 1919 to Oct. 1921 and June 1922 to July 1925 with A. B. Drake, Civ. Engr., New Bedford, Instrumentman and drafting, surveys, cross-sections, lines and grades on construction. TT 5.2: SP 5.2. July 1925 to Feb. 1926 with Lock & Thomas, New Bedford, as Surveyor, Timekeeper, Cost and Materialman on construction of Monomet No. 3 addition. TT 0.6: SP 0.6. Feb. to May 1926 with O. P. Woodcock, Jacksonville, Fla., as Field Engr. on a hotel (laid out, not constructed) and Concrete Foreman on Ford Plant. TT 0.3: SP 0.2: P 0.1. May-July 1926 Field Engr., Geo. A. Fuller Co., Jacksonville, on George Washington Hotel. TT 0.2: P 0.2. Sept. 1926 to date with Raymond Concrete Pile Co., New York City as Chf. of Party on construction, Lake Pontchartrain New Orleans Bridge, Slidell, La. TT 0.8: P 0.8. TT 7.3: SP 6.2: P 1.1. Refers to A. B. Drake, L. E. Loxley, W. V. McMenimen, T. V. Moore, C. L. Wade.

1220

(4) **KATHMAN, HARRY JOSEPH**, 234 Fourth Ave., Phoenixville, Pa. (Age 24. Born Brooklyn, N. Y.) 1927 B. S., Worcester Pol. Inst. July 1927 to date Structural Draftsman. Phoenix Bridge Co., Phoenixville, Pa. TT 2: SP 2. Refers to C. M. Allen, A. W. French, J. W. Howe, A. J. Knight.

1221

(1) **KECKLER, CLARENCE MERLE**, 15 Clinton Place, Red Bank, N. J. (Age 24. Born Waynesboro, Pa.) 1927 B. S. in San. Eng., Pa. State Coll. At present Chemist and Bacteriologist in charge of treatment, Monmouth Consolidated Water Co., Long Branch, N. J. TT 2: SP 2. Refers to R. O'Donnell, E. D. Walker.

1222

(11) **KENNEDY, KLEIN WEBB**, Box 403, Steel Works Y. M. C. A., Pueblo, Colo. (Age 21. Born Greenville, Tex.) 1927 B. S. in C. E., Ga. School Tech. TT 2: SP 2. Summer 1924 Rodman, Instrumentman and Inspector, Hunt County (Tex.) Highway Dept. June 1927 to date Transitman, Eng. Dept., Colorado Fuel & Iron Co., Pueblo, Colo. TT 0.1: SP 0.1. TT 2.1: SP 2.1. Refers to R. P. Black, F. C. Snow.

1223

(4) **KENNEDY, THOMAS LITCHFIELD, Jr.**, 235 Rosemont Ave., Trenton, N. J. (Age 24. Born Tampa, Fla.) 1927 B. S. in Civ. Eng., Ga. School Tech. TT 2: SP 2. Sept. 1924 to Feb. 1925 with Florida Landscape Eng. Co., Tampa, Fla., as Draftsman on subdivision maps, Transitman, leveling, etc. Summer 1925 Instrumentman, Eng. Dept., Hillsboro County, on road construction. Summer 1926 Inspector of street construction, Eng. Dept., City of Tampa. TT 0.4: SP 0.4. TT 2.4: SP 2.4. Refers to R. P. Black, F. C. Snow.

1224

(1) **KLOTZ, RUSSEL LOUIS**, San Salvador, El Salvador. (Age 32. Born Totowa Borough, N. J.) 1916 C. E., Princeton Univ. TT 2: SP 2. Dec. 1916 to May 1917 Transitman, Central R. R. of New Jersey. TT 0.4: SP 0.4. Nov. 1919 to Jan. 1921 with Cuyamel Fruit Co., as Asst. Engr. on drainage and light railway construction on banana plantations and Res. Engr. on railroad construction (42-in. gauge). TT 1.2: P 1.2. April 1921 to June 1923, and Aug. 1923 to date with R. W. Hebard & Co., Inc., as Topographer on surveys, Res. Engr. on construction, and (Aug. 1923 to Jan. 1925) Location Engr. and Supt. of Constr., on national highways, Republic of Panama; since Jan. 1925 Prin. Asst. on sanitation and paving of San Salvador, El Salvador. TT 6.1: SP 0.5: P 5.6: RC 5.6: D 3.9. TT 9.7: SP 2.9: P 6.8: RC 5.6: D 3.9. Refers to M. E. Gilmore, T. Guardia, R. C. Hardman, R. W. Hebard, R. K. West, W. F. Wirth.

1225

(1) **KOCHANCZYK, JOHN MITCHELL**, 108-48 Liverpool St., Jamaica, N. Y. (Age 21. Born Lawrence, Mass.) 1927 S. B., Mass. Inst. Tech. TT 2: SP 2. Refers to C. B. Breed, C. M. Spofford.

## 1226

(9) KUHNS, JOHN DANIEL, 526 Forest Ave., Dayton, Ohio. (Age 27. Born Dayton, Ohio.) A. B. Wittenberg Coll., Springfield, Ohio. 1927 B. S., Mass. Inst. Tech. TT 2: SP 2. Refers to E. Mirabelli, C. M. Spofford.

## 1227

(1) KURCIAS, MAXWELL, 1665 Nelson Ave., New York City. (Age 30. Born New York City.) 1918 C. E., Cornell Univ. TT 2: SP 2. Summer 1917 Jun. Asst., Transit Comm., New York City, acting as Transitman on subway and tunnel construction. July 1918 to May 1919 Ensign, U. S. Navy, acting as Eng. Watch Officer. TT 0.9: SP 0.9. May 1919 to June 1920 Structural Designer with Van Rensselaer Hoff Greene, New York City, on steel and concrete refrigerating plants. TT 1.1: P 1.1: D 1.1. June 1920 to April 1921 New York Engr., Alvarado Min. & Milling Co., New York City, in charge of engineering design. TT 0.8: P 0.8: RC 0.8: D 0.8. April to June 1921 Engr., United Fruit Co., New York City, on design and tests of refrigerating equipment. TT 0.3: P 0.3: RC 0.2: D 0.1. June 1921 to July 1922 Field Engr. and Supt. of Constr., J. C. Gaffney Constr. Co., Inc., New York City. TT 1.1: P 1.1: RC 1.1. July 1922 to Aug. 1923 Structural Steel Draftsman, Dept. of Docks, New York City, on design of steel, concrete, etc. TT 3.1: P 3.1: D 3.1. Aug. 1925 to Aug. 1926 Field Engr. and Estimator, with T. C. Whitt, New York City, general contracting, in charge of construction. TT 1.1: P 1.1: RC 1.1. Aug. 1926 to date Chf. Estimator and Engr., Edwin J. Foley Constr. Co., Inc., New York City, on estimates and Superv. Engr., general contracting. TT 1: P 1: RC 1. TT 11.4: SP 2.9: P 8.5: RC 4.2: D 5.1. Refers to H. S. Jacoby, T. F. Keller, O. M. Leland, C. Potts, S. T. Smith, S. N. Williams.

## 1228

(6) LANG, THOMAS SIMEON, City Bldg., Clarksburg, W. Va. (Age 45. Born Bridgeport, W. Va.) 1902 B. S. C. E., W. Va. Univ. TT 2: SP 2. June 1902 to Sept. 1903 Transitman on surveys, location, construction, etc., until Nov. 1902 for R. L. Morris, Cons. Engr., Morgantown, W. Va., then for Baltimore & Ohio R. R. TT 1.4: SP 1.4. Sept. 1903 to June 1909 Instructor in Civ. Eng., Agricultural and Mechanical Coll. of North Carolina. TT 5.8: P 5.8. Nov. 1910 to Nov. 1915 Asst. Engr., Hope Natural Gas Co., on location, wells, pipe lines, layout and construction of pumping stations, etc. TT 5: P 5. Nov. 1915 to May 1918 in private practice of consulting engineering, mostly mining engineering. TT 2.5: P 2.5: RC 2.5: D 2.5. May 1918 to date City Engr., Clarksburg, W. Va. TT 9.2: P 9.2: RC 9.2: D 9.2. TT 25.9: SP 3.4: P 22.5: RC 11.7: D 11.7. Refers to T. F. Boltz, H. K. Carpenter, C. P. Collins, C. O. Findlay, F. D. McEntee, M. W. Smith.

## 1229

(4) LANG, VICTOR ALEXANDER, 97 East Ave., Wellsboro, Pa. (Age 22. Born Cleveland, N. Y.) 1927 B. S. in C. E., Carnegie Inst. Tech. TT 2: SP 2. Refers to F. J. Evans, F. M. McCullough, W. E. Mott, C. B. Stanton, H. A. Thomas.

## 1230

(12) LARSON, ARTHUR GEORGE, 2158 First Ave., West, Vancouver, B. C., Canada. (Age 24. Born Ottawa, Ont., Canada.) 1927 B. A. Sc. in C. E., Univ. of B. C. TT 2: SP 2. May 1927 to date Office Asst. and Draftsman, University Endowment Lands Subdivision, Vancouver, B. C., municipal engineering. TT 0.2: SP 0.2. TT 2.2: SP 2.2. Refers to W. E. Duckering, J. R. Grant.

## 1231

(7) LASKOWSKI, JOHN, Minot, N. Dak. (Age 22. Born Minot, N. Dak.) 1927 B. S., Coll. of Civ. Eng., Univ. of N. Dak. TT 2: SP 2. Refers to E. F. Chandler, C. Johnson.

## 1232

(8) LAWSON, ELMER BARTHOLD, 179 First St., Hinsdale, Ill. (Age 22. Born Minneapolis, Minn.) 1927 S. B., Mass. Inst. Tech. TT 2: SP 2. Refers to H. K. Barrows, L. K. Sherman, C. M. Spofford.

## 1233

(3) LEMPKA, WILLIAM MARION, Box 447, Florida, N. Y. (Age 23. Born Florida, N. Y.) 1927 S. B., Mass. Inst. Tech. TT 2: SP 2. Refers to C. B. Breed, C. M. Spofford.

## 1234

(1) LESHER, JOHN PERSON, Union House, Midvale, N. J. (Age 22. Born Phillipsburg, N. J.) 1927 B. S. in C. E., Lafayette Coll. TT 2: SP 2. Refers to F. O. Dufour, W. S. Lohr, L. Perry.

## 1235

(1) LETOURNEAU, DORIA GEORGE, 45 West 70th St., New York City. (Age 21. Born Manchester, N. H.) 1927 S. B., Mass. Inst. Tech. Summer 1926 Eng. Asst., H. P. Converse & Co., Boston, Mass. TT 2: SP 2. Refers to C. B. Breed, C. M. Spofford.



## 1236

(7) LEVIN, JACOB, 599 Maple St., Milwaukee, Wis. (Age 20. Born Milwaukee, Wis.) 1927 B. S. in C. E., Univ. of Wis. TT 2: SP 2. Refers to D. W. Mead, L. S. Smith, L. F. Van Hagan.

## 1237

(5) LEWEY, ERNEST BANE, 11th St. North, Pulaski, Va. Graduating student awarded Virginia Section prize. (Age 22. Born Eckman, W. Va.) 1927 B. S. in Civ. Eng., Va. Pol. Inst. TT 2: SP 2. Refers to R. B. H. Begg, F. P. Turner.

## 1238

(2) LUNDEN, EUGENE BERNARD, 315 Pearl St., Hartford, Conn. (Age 22. Born Youngstown, Ohio.) 1927 S. B., Mass. Inst. Tech. TT 2: SP 2. July 1927 to date Transitman, Right-of-Way Dept., Connecticut State Highway Dept. TT 0.1: SP 0.1. TT 2.1: SP 2.1. Refers to C. B. Breed, C. M. Spofford.

## 1239

(2) LUNDEN, SELIM OSCAR, 315 Pearl St., Hartford, Conn. (Age 20. Born East Setauket, N. Y.) 1927 S. B., Mass. Inst. Tech. TT 2: SP 2. July 1927 to date Transitman, Right-of-Way Dept., Connecticut State Highway Dept. TT 0.1: SP 0.1. TT 2.1: SP 2.1. Refers to C. B. Breed, C. M. Spofford.

## 1240

(4) MANN, HERBERT EICHHOLZ, 2022 North Eighteenth St., Philadelphia, Pa. (Age 20. Born Lebanon, Pa.) 1927 B. S. in C. E., Univ. of Pa. TT 2: SP 2. Summers 1925 and 1926 Rodman, Reading Co., Philadelphia, Pa. July 1927 to date Rodman Pennsylvania R. R., Philadelphia. TT 0.2: SP 0.2. TT 2.2: SP 2.2. Refers to H. C. Berry, W. H. Chorlton, E. T. Grandlennard, F. P. Witmer.

## 1241

(8) MARTENS, LeROY PETER, 1441 Hollywood Ave., Chicago, Ill. (Age 24. Born Chicago, Ill.) 1927 B. S. in C. E., Armour Inst. Tech. TT 2: SP 2. June 1927 to date Asst. to Foreman, U. S. Gypsum Co., Chicago, Ill., on installation of fireproof gypsum roof decks. TT 0.2: SP 0.2. TT 2.2: SP 2.2. Refers to J. R. Griffith, R. L. Stevens.

## 1242

(5) MATHISSON, JOHN CLARENCE, U. S. Coast and Geodetic Survey, Washington, D. C. (Age 23. Born Birmingham, Ala.) 1927 B. S. in Civ. Eng. Ala. Pol. Inst. TT 2: SP 2. June 1927 to date Deck Officer, U. S. Coast and Geodetic Survey. TT 0.1: SP 0.1. TT 2.1: SP 2.1. Refers to C. A. Baughman, F. L. Peacock.

## 1243

(1) MAYER, CHARLES, 31 Union Sq., New York City. (Age 38. Born New York City.) 1907 B. A., and 1909 C. E., Columbia Univ. TT 2: SP 2. 1909 to 1910 with Percival R. Moses, New York City, designing and engineering mechanical and electrical installations. TT 1: P 1: RC 1: D 1. 1911 to date in private practice of civil engineering, including design and erection of warehouses (8 stories) for Mercantile Warehouse, New York City, (1911-1912), design and supervision of construction of reinforced concrete stadium, Coll. of City of New York 22-story office building (50 ft. wide) (1912-1915), pavilions, children's dispensary, auditorium and Pathological Building, alterations to buildings, design of and underpinning for construction of a tunnel, for Mt. Sinai Hospital (1914-1920); cadet hospital and mess hall, West Point (1920-1922); Capital Park development, including foundations for office building (6 stories), Harrisburg, Pa. (1919-1921 and 1924-1925); two ice plants (300 and 600 tons daily) with subsequent additions, New York City (1917 to 1921); ice cream plant (4 stories, reinforced concrete), Long Island City (1922-1924), apartments, etc.; also had complete charge of design, including foundations, of large number of structural steel buildings. TT 16: P 16: RC 16: D 16. TT 19: SP 2: P 17: RC 17: D 17. Refers to W. H. Burr, M. S. Falk, S. O. Miller, D. E. Moran, G. A. Noska, J. F. O'Rourke, E. W. Stern, W. H. Yates.

## 1244

(4) MAYHEW, WALLACE NELSON, 117 East Mt. Pleasant Ave., Philadelphia, Pa. (Age 47. Born Philadelphia, Pa.) 1921 B. S., and 1927 C. E., Univ. of Pa. TT 2: SP 2. May to Nov. 1900 Draftsman with W. W. & R. S. Stevens, Philadelphia, Pa. TT 0.5: SP 0.5. Nov. 1900 to Sept. 1902 Asst. Structural Engr. and Chf. Engr., with Stevens & Hannis, Philadelphia. TT 1.9: P 1.9: RC 1.4: D 1.9. Oct. 1902 to date partner Steward & Stevens Iron Works and (after April 1921) also Montgomery Iron & Steel Co. (companies merged) Philadelphia, had charge of finance and engineering; in 1926 designed, moved and built new plant for Montgomery Iron & Steel Co., using part of old building without cessation of operation. TT 24.9: P 24.9: RC 24.9: D 9. TT 29.1: SP 2.5: P 26.6: RC 26.6: D 10.9. Refers to W. W. Atterbury, W. P. Cameron, A. Corson, H. Deakne, J. S. Ely, W. H. Gravel, C. F. Mebus, J. Meigs, G. F. Pawling, E. G. Perrot, P. M. Sax, C. H. Stevens, S. F. Tapman, F. P. Witmer.



## 1245

(10) **MAYNARD, GEORGE EBEN**, 5408 Suwanee Ave., Tampa, Fla. (Age 46. Born Auburn, N. Y.) 1903 graduated from Webb Inst. (Naval Archt. and Marine Eng.). June 1903 to Oct. 1905 Asst. Ship Draftsman, U. S. Naval Constructor's Office, New York. Shipbuilding Co., checking hull drawings and making finished plans of naval vessels. *TT 2.3: SP 2.3.* Oct. 1905 to Nov. 1906 Ship Draftsman, U. S. Naval Station, Cavite, Philippine Islands, making drawings for repairs and reconditioning vessels in Asiatic Fleet. *TT 1.1: SP 1.1.* Feb. to March 1907 Bridge Draftsman, King Bridge Co., Cleveland, Ohio. *TT 0.1: SP 0.1.* March 1907 to Aug. 1910 Bridge Draftsman, New York State Bureau of Bridges, Albany, making detailed drawings and estimating weights and quantities for highway bridges, movable dams, lock gates, etc., also Inspector of erection of bridges and lock gates. *TT 3.4: SP 3.4.* Aug. to Dec. 1910 Engr. on preliminary survey for proposed water-power development in Georgia. *TT 0.4: SP 0.4.* Jan. to May 1911 Structural Draftsman, Southern Power Co., Charlotte, N. C., detailing structural steel for electro-chemical plant. *TT 0.4: SP 0.4.* June 1911 to June 1912 and May to Nov. 1913 Structural Engr., Charlotte, designing steel frame office and mill buildings for architects and engineers, being responsible for all calculations, etc., some included special features for handling material in large fertilizer and chemical plants. *TT 1.6: P 1.6: RC 1.6: D 1.6.* June to Aug. 1912 Checker, Virginia Bridge & Iron Co., Roanoke, Va., checking shop drawings for highway bridges, mill buildings and towers. *TT 0.2: P 0.2.* Aug. 1912 to May 1913 and Nov. 1913 to Oct. 1917 with General Fire Extinguisher Co., Charlotte, until May 1913 as Mech. Draftsman and after Nov. 1913 Mech. Engr. and later Asst. Chf. Power Engr., making piping plans for steam power plants and heating systems for cotton mills, etc., preparing estimates, ordering material and making transit surveys of power plant machinery outlets for cutting large pipe and making flanged bends; responsible, in absence of the Chf. for power and heating work; after Nov. 1913 (evenings, etc.) also consulting work on steel structures for architects and engineers in Charlotte. *TT 4.6: SP 1.6: P 3: RC 1: D 1.* Oct. 1917 to Jan. 1919 Naval Archt., U. S. Shipping Board, Washington and Philadelphia, preparing technical data and correspondence in connection with commandeered vessels and specifications for vessels under contract. *TT 1.3: P 1.3.* Jan. to Feb. 1919 Hull Engr., Mobile (Ala.) Shipbuilding Co., checking hull drawings of merchant vessels. *TT 0.1: SP 0.1.* Feb. 1919 to Oct. 1921 Naval Archt., Gulf Dist. Shipping Board, New Orleans, Head of Tech. Dept., approving plans and measuring vessels, making calculations, reviewing and approving estimates of cost of changes in construction of vessels, preparing Dist.'s recommendations, etc. *TT 2.6: P 2.6: RC 2.6.* Oct. 1921 to March 1926 Naval Archt., Shipping Board, Washington and Philadelphia, reviewing estimates, claims, etc., preparing estimates and recommendations for Constr. Div. *TT 4.4: P 4.4.* March to Nov. 1926 sales work in Washington, D. C. Nov. 1926 to date Dist. Engr., Nashville Bridge Co., at Tampa, Fla., designing, estimating, office and sales work on contracts for steel building and bridges in Florida. *TT 0.7: P 0.7. TT 23.2: SP 9.3: P 13.9: RC 5.2: D 2.6.* Refers to A. V. Bouillon, G. M. Braune, W. R. Davis, A. J. Dyer, L. S. Edwards, A. J. Negrotto, T. D. Pitts.

## 1246

(1) **MEAD, JOHN DAVID**, 50 Clinton Pl., New York City. (Age 20. Born New York City.) 1927 B. S. in Civ. Eng., N. Y. Univ. *TT 2: SP 2.* Refers to H. E. Breed, A. Haring, E. G. Hooper, C. T. Schwarze, C. H. Snow, D. S. Trowbridge.

## 1247

(3) **MENDELAVITZ, WILLIAM**, Care, A. T. Quinn, Putnam, N. Y. (Age 21. Born Albany, N. Y.) 1927 C. E., Rens. Pol. Inst. *TT 2: SP 2.* June 1927 to date Jun. Asst. Engr., Grade 1, New York State Highway Dept. *TT 0.2: SP 0.2. TT 2.2: SP 2.2.* Refers to E. R. Cary, L. W. Clark, T. R. Lawson.

## 1248

(10) **MERCHANT, LAWRENCE CHARLES**, Route 1, Biltmore, N. C. (Age 21. Born Asheville, N. C.) 1927 B. S. in C. E., Ga. School Tech. *TT 2: SP 2.* Refers to R. P. Black, F. C. Snow.

## 1249

(9) **MICHEL, WILLIAM**, 1306 Neil Ave., Columbus, Ohio. (Age 61. Born Columbus, Ohio.) 1885 to date with Hocking Valley Ry. Co., until 1890 as Rodman, 1890 to 1892 Min. Engr., 1892 to 1912 Engr. M. of W., and since 1912 Chf. Engr.; since 1926 also Chf. Engr., Chesapeake & Hocking Ry. (under construction). *TT 4.2: SP 5: P 37: RC 34: D 3.* Refers to R. N. Beglen, E. G. Bradbury, M. J. Caples, W. J. Harahan, R. H. Simpson.

## 1250

(12) **MILEY, JOHN DONNELL**, 1927 East Lynn, Seattle, Wash. (Age 23. Born Seattle, Wash.) 1927 B. S. in C. E., Univ. of Wash. Summer 1926 Tracer and on layouts, Boeing Airplane Co. *TT 2: SP 2.* Refers to J. B. Hamilton, C. W. Harris, C. C. More.

## 1251

(12) MILLER, GEORGE HODGSON, 709 Empire Ave., Coeur d'Alene, Idaho. Graduating student awarded Spokane Section prize. (Age 25. Born Coeur d'Alene, Idaho.) 1927 B. S. C. E., Univ. of Idaho. TT 2: SP 2. May 1927 to date Instrumentman and Chainman with U. S. Mineral Surveyor, on lode-claim surveys. TT 0.1: SP 0.1. TT 2.1: SP 2.1. Refers to I. C. Crawford, C. D. Forsbeck, M. R. Lewis, A. P. Ludberg, J. A. Murphy.

## 1252

(10) MILLER, WILLIAM HENRY, Box 281, Darien, Ga. (Age 25. Born Allenhurst, Ga.) 1927 B. S. in C. E., Ga. School Tech. TT 2: SP 2. June 1927 to date Inspector, State Highway Dept. of Georgia, in charge of field laboratory at Darien, Ga. TT 0.2: SP 0.2. TT 2.2: SP 2.2. Refers to R. P. Black, F. C. Snow.

## 1253

(4) MILLIKEN, HAROLD EDWARD, 207 West Ninth St., Chester, Pa. (Age 22. Born Portland, Me.) 1927 B. S. in Civ. Eng., Univ. of Me. TT 2: SP 2. Summers 1924 and 1925 Rodman and Transitman, Dept. of Public Works, Portland, Me. June 1927 to date Asst. Engr., Public Works Eng. Corporation, New York City. TT 0.2: SP 0.2. TT 2.2: SP 2.2. Refers to P. C. Gillette, J. L. Harrop.

## 1254

(9) MITCHELL, DESSO TWIGG, 1460 Republic Ave., Columbus, Ohio. (Age 27. Born Cloverdale, Ohio.) 1924 B. C. E., Ohio State Univ. TT 2: SP 2. June 1924 to Feb. 1926 with Pennsylvania Dept. of Highways, until June 1925 as Instrumentman, on transit and level work then Chf. of Survey Parties, Kittanning and Renova Dist. directing work on highway surveys. TT 1.6: SP 0.9: P 0.7: RC 0.7. Feb. 1926 to June 1927 with Sewer Dept., Div. of Eng., Columbus, Ohio, until June 1926 as Draftsman on contract drawings, then Asst. Engr., making computations, designing sewers and sewerage systems and preparing contract drawings. TT 1.3: SP 0.3: P 1. TT 4.9: SP 3.2: P 1.7: RC 0.7. Refers to O. Bonney, J. H. Gregory, H. Larson, J. R. Shank, R. H. Simpson, R. C. Sloane.

## 1255

(1) MOORE, FRANK EVERETT, Jr., 8 West Seventy-Seventh St., New York City. (Age 27. Born New Orleans, La.) 1924 B. S., Mass. Inst. Tech. TT 2: SP 2. Aug. 1924 to Feb. 1925 Eng. Asst., State Board of Health, on field and office work for sewerage and water supply. TT 0.5: SP 0.5. March to Nov. 1925 Instrumentman, County Engr.'s office, field and office work on highway surveys. TT 0.7: SP 0.7. Dec. 1925 to Feb. 1926 Draftsman with E. W. Stern, on plans for concrete warehouse. TT 0.2: SP 0.2. March 1926 to April 1927 drafting and designing, until April 1926 on railroad station for Erie R. R., then on industrial buildings on American Can Co. TT 1.2: SP 1.2. April to June 1927 with Francisco & Jacobus, drafting for industrial building, concrete factory. TT 0.2: SP 0.2. June 1927 to date with Chas. C. Hurlbut, designing residences. TT 0.1: SP 0.1. TT 4.9: SP 4.9. Refers to A. B. Helser, C. C. Hurlbut.

## 1256

(15) MOORE, ROBERT JEROME, Jr., 422 Augusta St., San Antonio, Tex. (Age 21. Born San Antonio, Tex.) 1927 B. S. in Civ. Eng., Univ. of Dayton, Ohio. TT 2: SP 2. Refers to J. E. Grimes, B. T. Schad.

## 1257

(12) MORE, DAVID THURBER, 1739 South Thirty-Fifth St., Tacoma, Wash. (Age 32. Born Princeton, Ill.) 1927 B. S. in C. E., Univ. of Wash. TT 2: SP 2. March to Nov. 1923 Carpenter and Straw Boss, Hurley, Mason & Co., on construction of Veterans Hospital, American Lake. July to Nov. 1925 Draftsman and Carpenter with Henry & McPhee, on construction of repair and fitting out pier, Bremerton Navy Yard. TT 2: SP 2. Refers to I. L. Collier, J. B. Hamilton, C. W. Harris, C. C. More, W. F. Way.

## 1258

(5) MORRIS, GEORGE EDWARD, Jr., U. S. Coast and Geodetic Survey, Washington, D. C. (Age 21. Born Regina, Sask., Canada.) 1927 B. S. in C. E., Univ. of Minn. TT 2: SP 2. June 1927 to date Deck Officer, U. S. Coast and Geodetic Survey, on hydrographic and topographic office work. TT 0.1: P 0.1. TT 2.1: SP 2: P 0.1. Refers to F. Bass, A. S. Cutler.

## 1259

(4) MYLIUS, FRED GEORGE, 866 Stuyvesant Ave., Trenton, N. J. (Age 21. Born Atlanta, Ga.) 1927 B. S. in Civ. Eng., Ga. School Tech. TT 2: SP 2. Refers to R. P. Black, F. C. Snow.

## 1260

(1) NAPP, SAMUEL, 15 East Fortieth St., New York City. (Age 46. Born in Russia.) 1913 B. S. in C. E., and 1926 C. E., Univ. of Pa. TT 2: SP 2. June to Nov. 1913 Structural Detailer, American Bridge Co. on steel office buildings. TT 0.4: SP 0.4. Feb. 1914 to

July 1916 Draftsman, Estimator and Designer, Wm. Linker Co., Philadelphia, Pa., designing reinforced concrete, steel and slow burning industrial and commercial structures; competitive estimating; in charge of plans and specifications for ice-making plants and loft and factory buildings; field supervision and inspection. *TT 2.4: P 2.4: P 1.4: D 1.* July 1916 to May 1917 Structural Eng. Designer in charge of squad and Aug. 1919 to April 1926 Structural Engr. with John T. Windrin, Archt., Philadelphia; directed structural design of two power plants (90 000 and 210 000 kw.) and first unit of a power plant (ultimate capacity 600 000 kw.); designed office building (20 stories) for Bell Telephone Co., Pittsburgh, Pa. *TT 7.5: P 7.5: RC 7.5.* May 1917 to Aug. 1919 Reinforced Concrete Designer and Draftsman, U. S. Govt., designed reinforced concrete pier at Cristobal, Canal Zone (1 000 ft. by 200 ft. continuous arch and girder). *TT 2.3: P 2.3: D 2.3.* April 1926 to date in private practice as Cons. Engr.; designed two reinforced concrete loft buildings (10 and 12 stories, flat slab), a steel office building (13 stories), several theatres, public garages, etc. *TT 1.3: P 1.3: RC 1.3. TT 15.9: SP 2.4: P 13.5: RC 10.2: D 3.3.* Refers to V. R. Dunlap, B. Irwin, F. N. Kneas, I. L. Lewis, W. I. Lex, W. Linker, S. I. Sacks.

1261

(11) NELSON, NILES HARRINGTON, Morro Bay, Cal. (Age 37. Born Marysville, Cal.) 3 years student, Univ. of California. *TT 1: SP 1.* Jan. to May 1913 with E. L. Soule, San Francisco, Cal., on computing, drafting, etc. *TT 0.4: SP 0.4.* June 1913 to Oct. 1914 Gen. Contr.'s Supt., with A. Arlett, San Francisco, representing Gen. Contr. on concrete building work coordinating work of sub-contractors. *TT 1.4: P 1.4: RC 1.* Nov. 1914 to July 1915 in private practice, contracting electrical installation at P. P. I. E., San Francisco. *TT 0.7: P 0.7: RC 0.7.* Aug. 1915 to June 1919 Inspector on municipal engineering, City of Berkeley, Cal. *TT 3.9: SP 3.9.* July 1919 to June 1920 and April 1922 to Dec. 1924 with California Highway Comm., Sacramento, Cal., first as Asst. Res. Engr. on grading and concrete structures, and after April 1922 Res. Engr. on asphaltic macadam and concrete and cement concrete paving. *TT 3.8: SP 1: P 2.8: RC 2.8.* April to Nov. 1926 Inspector, San Luis Obispo County, Cal., being Engr. in charge of asphalt paving. *TT 0.7: P 0.7: RC 0.7.* July 1920 to March 1922, April 1925 to March 1926 and Feb. 1927 to date Res. Engr. with C. C. Kennedy, San Francisco, being Engr. on concrete and asphalt paving, sewers, structures, etc., since Feb. 1927 in charge of work. *TT 3.2: P 3.2: RC 3.2. TT 13.1: SP 5.3: P 7.8: RC 7.4.* Refers to E. A. Ingham, J. J. Jessup, C. C. Kennedy, C. S. Pope, E. N. Prouty.

1262

(4) NIETZ, ERNEST WILLIAM, Route No. 5, Allentown, Pa. (Age 27. Born Boston, Mass.) 1919 to 1921 Draftsman and Designer first with Weatherly Steel Co. on structural steel buildings, then with Hazle Brook Coal Co., Hazleton, Pa., on coal breakers, mine structures and housing. *TT 2.3: SP 1.6: P 0.7: RC 0.2: D 0.5.* 1921 to 1923 Constr. Engr. and Estimator, Shepherd Constr. Co., Wilkes-Barre, Pa., on church buildings, schools and banks. *TT 1.5: SP 1.2: P 0.3: RC 0.2.* 1923 to 1924 Chf. Draftsman with Louis Reisman, Archts., Scranton, Pa., on garage and loft buildings, structural steel and reinforced concrete. *TT 0.5: P 0.5: RC 0.2: D 0.2.* 1924 to 1925 Supt. and Estimator with Alaimo Bros., Constr., Pittston, Pa., on church and school buildings. *TT 1.5: SP 1: P 0.5: RC 0.4: D 0.1.* 1925 to 1926 Supt. and Structural Engr., Maurice E. Kressly & Co., Harrisburg, Pa., on school buildings, structural steel and reinforced concrete. *TT 1.2: SP 0.2: P 1: RC 0.3: D 0.7.* 1926 to date Draftsman, T. H. Moyer Co., Allentown, Pa., on bank buildings (6 months), Engr. and Estimator with Langthorn & Smith, New York City, on Memorial Hospital Nurses Home, Alpha Delta Phi Fraternity at Columbia, alterations to U. E. S. Bldg., New York City (6 months) and at present Engr. and Supt. with Jacoby & Everett, Archts., Allentown, Pa., on reinforced concrete and steel mill buildings. *TT 1.2: SP 0.7: P 0.5: RC 0.2: D 0.3. TT 8.3: SP 4.8: P 3.5: RC 1.6: D 1.9.* Refers to B. C. Collier, Y. M. Karekin, J. S. Langthorn, T. H. Moyer, R. E. Werley.

1263

(6) NORTHART, PAUL RAYMOND, 463 Hiland Ave., West View, Pa. (Age 41. Born Altoona, Pa.) Registered Civ. Engr., State of Pennsylvania. 1905 to 1907 student, Carnegie School of Technology, Pittsburgh, Pa. *TT 0.6: SP 0.6.* 1902 to 1904 with Schoenberger Steel Co., as Levelman and Transltman, and later in charge of relining blast furnaces, etc. *TT 2: SP 2.* 1904 to 1907 with American Steel & Wire Co., on surveying, plant layout and appraisal work. *TT 2: SP 2: D 1.* 1907 with County Engr., Allegheny County, on road and bridge work. *TT 1: P 1: RC 0.5: D 0.7.* 1907 to 1910 with Heyl & Patterson as Draftsman on ore bridges, coal tipples, etc., finally Checker. *TT 3: SP 2.5: P 0.5: RC 0.5.* 1910 to 1911 Checker, Independent Bridge Co. *TT 1: P 1: RC 0.5: D 0.5.* 1911 to 1915 with Ritter-Conley Mfg. Co., Leetsdale, Pa., as Checker on bridge work, etc., then in Retort Gas Dept., in active charge, of drawing room work in connection with gas plant for Worchester Gas Light & Coke Co.; later had charge of laying out part of track elevation

work and gas scrubbing and condensing plant in connection with Peoples Gas Light & Coke Co., Chicago. *TT 4: P 4: RC 2.5: D 1.5.* 1915 to 1916 with Allegheny County as Fieldman in charge of improvements and additions to workhouse power plant, also designed two reinforced concrete reservoirs, spillways, water supply, piping layouts, etc., for entire prison, and designed, wrote specifications for, and had complete charge of construction of reinforced concrete water tank; also assisted on design for Ohio River Bridge at McKees Rocks, Pa. *TT 1: P 1: RC 0.6: D 0.4.* 1916 to 1920 with Koppers Co., first in charge of drawing room work on steam-power plants for by-product coke plants, then successively Asst. Chf. of Bldg. Dept., Asst. to Head of Benzol Plants Dept., and with Coke Oven Dept. in charge of oven work on Jones & Laughlin by-products coke plant at Hazelwood, Pa. *TT 4: P 4: RC 2: D 2.* 1920 to 1923 Constr. Engr., National Tube Co., in charge of additions to McKeesport (Pa.) plants, also laid out branch railroad from McKeesport to Dravosburg, Pa. *TT 3: P 3: RC 3.* 1923 to date in private practice at Pittsburgh, Pa.; designed and built warehouse for Donahoe, Inc., and designed pile foundations and supervised complete erection of warehouse for Rosenbaum Co., both at Pittsburgh; designed steel frame and supervised complete erection of store and office building for J. C. Penney Co. at New Kensington, Pa.; designed steel frame and flat slab reinforced concrete warehouse for Bailey Co. at Cleveland, Ohio. *TT 4: P 4: RC 2: D 1. TT 25.6: SP 7.1: P 18.5: RC 11.6: D 7.1.* Refers to M. Brown, E. L. Durkee, C. H. Fowler, F. Kubitz, C. D. Loveland.

## 1264

(3) OBERLIES, FRANCIS MATHIAS, 3560 Lake Ave., Rochester, N. Y. (Age 22. Born Rochester, N. Y.) 1927 C. E., Rens. Pol. Inst. *TT 2: SP 2.* Refers to E. R. Cary, L. W. Clark, H. B. Compton, T. R. Lawson, P. C. Ricketts, W. W. Rousseau.

## 1265

(7) OLIVER, HAROLD JOSEPH, U. S. Coast and Geodetic Survey, Washington, D. C. (Age 21. Born Henderson, Iowa.) 1927 B. S. in C. E., Iowa State Coll. *TT 2: SP 2.* June 1927 to date Deck Officer, U. S. Coast and Geodetic Survey, office work. *TT 0.1: SP 0.1. TT 2.1: SP 2.1.* Refers to R. A. Caughey, J. S. Dodds, W. L. Foster, A. H. Fuller, A. Marston.

## 1266

(15) PAULET, EMILE GEORGE, P. O. Box 1277, Baton Rouge, La. (Age 24. Born Manot, Charente, France.) 1922 Diplomat, L'Ecole du Genie Civil. Sept. 1922 to Feb. 1924 Mechanic, with Louis Breguet, Ateliers d'Aviation, making pieces for wings of airplanes and fuselage, mounting of airplanes, and Draftsman detailing and designing. *TT 1.5: SP 1.5: D 0.5.* June 1924 to Jan. 1925 Draftsman with H. T. Richardson, C. E., Hammond, La., mapping and detailing. *TT 0.7: SP 0.7.* Feb. 1925 to June 1927 Draftsman, detailing and designing, until Aug. 1926 with Standard Oil Co. of Louisiana, then with Louisiana Highway Comm., Baton Rouge, La. *TT 2.5: SP 1.4: P 1.1: D 1.1. TT 4.7: SP 3.6: P 1.1: D 1.6.* Refers to N. W. Bowden, E. L. Erickson, J. M. Fourmy, N. E. Lant, W. C. Youngs.

## 1267

(9) PERREY, JOSEPH IRVING, 98 West Woodruff Ave., Columbus, Ohio. (Age 23. Born Ft. Wayne, Ind.) 1927 B. S. C. E., Purdue Univ. *TT 2: SP 2.* Refers to W. K. Hatt, R. B. Willey.

## 1268

(11) PETERSON, HILMER FREDERIC, 289 South Madison Ave., Pasadena, Cal. (Age 26. Born Brainerd, Minn.) 1927 B. S. in C. E., Cal. Inst. Tech. *TT 2: SP 2.* Aug. 1923 to Aug. 1927 (2 years while student) Jun. Draftsman with Los Angeles County (Cal.) Surveyor. *TT 2: SP 2. TT 4: SP 4.* Refers to F. J. Converse, F. F. Friend, A. Jones, H. M. Jones, R. R. Martel, W. W. Michael, F. Thomas.

## 1269

(6) PIERCE, JOHN FRANKLIN, City Mgr., Springdale, Pa. (Age 29. Born Essex, Mass.) 1923 B. C. E., Northeastern Univ., Boston, Mass. *TT 2: SP 2.* June 1923 to May 1924 Asst. Engr., Roanoke (Va.) Water Works Co., on water-leak survey, office work. *TT 0.9: SP 0.9.* June 1924 to Feb. 1926 with Metcalf & Eddy, Boston, Mass., as Res. Engr. on construction, Plymouth County (Mass.) sewage-treatment works, filter beds, American Glue Co., Springdale, Pa., office work. *TT 1.7: SP 0.5: P 1.2: RC 1.2.* Feb. 1926 to date City Mgr. of Springdale, in charge of engineering in Street, Sewer and Water Depts. *TT 1.6: P 1.6: RC 1.6: D 0.2. TT 6.2: SP 3.4: P 2.8: RC 1.6: D 0.2.* Refers to H. P. Eddy, C. S. Ell, A. L. Fales, S. Keith, J. P. Wentworth.

## 1270

(1) PIEROLA, CARLOS NICOLAS de, Edificio Rimac 109 Bejos, Lima, Peru. (Age 26. Born Lima, Peru.) 1927 B. S. in C. E., Catholic Univ. of America; *TT 2: SP 2.* Refers to J. W. Oehmann, A. J. Scullen.



(4) **PITFIELD, VERNE KEITH**, Y. M. C. A., Pottstown, Pa. (Age 21. Born Millis, Mass.) 1927 B. S. in Civ. Eng., Worcester Pol. Inst. TT 2: SP 2. June 1927 to date Detail Draftsman, McClintic-Marshall Co. TT 0.1: SP 0.1. TT 2.1: SP 2.1. Refers to C. M. Allen, A. W. French, J. W. Howe, A. J. Knight.

1272

(7) **PONTOW, RAWLSTON EMMET**, Box 175, Buffalo, Iowa. (Age 23. Born Creston, Iowa.) 1927 B. S. in C. E., Iowa State Coll. TT 2: SP 2. June 1927 to date Materials Inspector, Iowa Highway Comm. TT 0.2: SP 0.2. TT 2.2: SP 2.2. Refers to T. R. Aggs, J. S. Dodds, W. L. Foster, A. H. Fuller, F. Kerekes.

1273

(7) **RABUCK, ARTHUR JACOB**, 5019 Wisconsin Ave., Milwaukee, Wis. (Age 35. Born Miranda, S. Dak.) 1923 B. S. in Civ. Eng., Univ. of Wis. TT 2: SP 2. June 1923 to Jan. 1924 Asst. Engr., Civ., Board of Public Land Commrs., Milwaukee, Wis., in charge of topographical survey work, location and traffic surveys. TT 0.5: SP 0.5. Jan. 1924 to Nov. 1925 Senior Planning Draftsman, and Nov. 1925 to date Asst. City Planning Engr., Board of Public Land Commrs., Milwaukee, investigation, research work, reports, supervising Drafting Dept. and departmental work, etc. TT 3.6: P 3.6: RC 1.8. TT 6.1: SP 2.5: P 3.6: RC 1.8. Refers to J. G. Bennett, R. H. Cahill, E. L. Knebes, J. P. Schwada, C. U. Smith, L. S. Smith, F. W. Ullius, Jr.

1274

(11) **RATCLIFFE, ROBERT CHARLES**, 1530 Grant St., Denver, Colo. (Age 24. Born Alexandria, La.) 1927 B. S. in C. E., Univ. of Colo. TT 2: SP 2. Refers to R. L. Downing, F. R. Dungan, C. L. Eckel, H. J. Gilkey.

1275

(3) **REID, WALTER ARTHUR**, 15 Thompson St., Poughkeepsie, N. Y. (Age 22. Born Amsterdam, N. Y.) 1927 C. E., Rens. Pol. Inst. TT 2: SP 2. June to July 1927 Instructor in hydrographical and topographical surveying, Rensselaer Polytechnic Inst. TT 0.1: P 0.1. TT 2.1: SP 2: P 0.1. Refers to E. R. Cary, L. W. Clark, H. B. Compton, T. R. Lawson, W. W. Rousseau.

1276

(15) **RHOADES, RALPH HENRY**, Bartlesville, Okla. (Age 23. Born Newton, Kans.) 1927 B. S. in C. E., Kans. State Agri. Coll. TT 2: SP 2. Summers 1922 and 1923 Chainman, and June 1924 to Sept. 1925 Rodman, Atchison, Topeka & Santa Fe Ry. Co. June 1927 to date Field Engr., Empire Gas & Fuel Co., in charge of laying out and locating Ponca City-Pampa (Tex.) telephone line. TT 0.2: P 0.2. TT 2.2: SP 2: P 0.2. Refers to C. M. Buck, L. E. Conrad, M. W. Furr.

1277

(9) **RICE, RAYMOND HALL**, 1129 Palmwood Ave., Toledo, Ohio. (Age 22. Born Toledo, Ohio.) 1927 B. of C. E., Ohio State Univ. TT 2: SP 2. Summer 1924 Instrumentman on streets and subdivisions, with George Champe, Toledo, Ohio. Summer 1926 Officeman, H. P. Strelcher Co., Inc., Paving Contrs., Toledo, getting costs, collecting data and making final estimates. April 1925 to April 1926 and June 1927 to date with City of Toledo, until April 1926 as Draftsman and Instrumentman on streets, alleys and sewers, and since June 1927 Draftsman, Senior Engr. TT 1.3: SP 0.5: P 0.8. TT 3.3: SP 2.5: P 0.8. Refers to G. Champe, C. T. Morris, L. T. Owen, J. C. Prior, J. R. Shank, R. C. Sloane, G. A. Taylor.

1278

(7) **RICHARDS, LEON KENNETH**, Atlantic, Iowa. (Age 29. Born Britt, Iowa.) 1922 A. B., Grinnell (Iowa) Coll. 1927 B. S. in Civ. Eng., Clemson Coll. TT 2: SP 2. Summer 1921 Rodman, and Summer 1922 Levelman, County Drainage Crew, with A. J. Lilly, Britt, Iowa. Summer 1923 Helper on dragline dredge, with E. L. Hutton, Britt. Summer 1924 Finisher on city paving, with Earl Momeyer, Algona, Iowa. Summer 1926 and June 1927 to date Instrumentman, Iowa Highway Comm. TT 0.1: P 0.1. TT 2.1: SP 2: P 0.1. Refers to E. L. Clarke, L. M. Martin.

1279

(14) **RICKETTS, HENRY PALMER**, 2732 Prospect St., Kansas City, Mo. (Age 23. Born Kansas City, Mo.) 1927 B. S. in Civ. Eng., Univ. of Mo. TT 2: SP 2. March to Aug. 1925 Chainman, U. S. Reclamation Service, at Riverton, Wyo., also acted as Rodman and (2 months) Inspector on dam. June 1927 to date Chainman, Santa Fe Ry. TT 0.2: SP 0.2. TT 2.2: SP 2.2. Refers to H. A. LaRue, H. K. Rubey.

1280

(7) **RIPS, MERLE NORMAN**, 204 Henry St., Detroit, Mich. (Age 23. Born in Russia.) B. S. in Math. and Physics, and 1926 B. S. in C. E., Univ. of Nebr. TT 2: SP 2. June to Aug. 1926 with H. A. Brodkey Constr. Co., Omaha, Nebr., estimating costs and quan-



titles on building construction. *TT 0.2: P 0.2.* Aug. 1926 to May 1927 Draftsman on road and street plans, Michigan State Highway Dept., Lansing, Mich., and (after Feb. 1927) Detroit Super-Highway Comm. *TT 0.8: P 0.8.* May 1927 to date Senior Civ. Draftsman, Water Board, Detroit, on design of land tunnels. *TT 0.2: P 0.2. TT 3.2: SP 2: P 1.2.* Refers to H. S. Grassman, H. J. Kesner, L. G. Lenhardt, C. E. Mickey.

## 1281

(6) **SADDAM, TOMAS ABRINA**, Downtown Y. M. C. A., Pittsburgh, Pa. (Age 23. Born Paoay, Ilocos Norte, Philippine Islands.) 1927 B. S. in C. E., Univ. of Ill. *TT 2: SP 2.* July 1927 to date Surveyman, Pittsburgh Flood Comm., on topographic drafting and mapping and hydrographic studies. *TT 0.3: SP 0.3. TT 2.3: SP 2.3.* Refers to H. E. Babbitt, H. C. Boardman, H. Cross, J. J. Doland, S. B. Knowlton, G. W. Pickels.

## 1282

(1) **SATHIEN, PRA** (formerly known as Nai Duang), 164 Krung Kasem Rd., Bangkok, Siam. (Age 39. Born Bangkok, Siam.) 1908 to 1911 student in Civ. Eng. Leeds (England) Univ. *TT 1: SP 1.* June 1911 to June 1912 and Oct. 1912 to Oct. 1913 Apprentice, first in fitting shop, Sheepscar Foundry, Leeds, and after Oct. 1912 in office of F. H. Wrench, Cons. Engr., Sheffield, England, assisting in survey work and design. *TT 2.1: SP 2.1.* March 1914 to July 1917 with Highway Dept. of Siam, until March 1916 as Draftsman on calculations, some design and check of plans, then Asst. Engr. in charge of construction, Lampang-Chiangrai Road (234 km.). *TT 3.3: SP 2: P 1.3: RC 1.3.* July 1917 to date with Royal State Rys., Bangkok, engaged as follows: July 1917 to Aug. 1919 Asst. Engr. designing bridges and station building, and (after March 1918) in charge of construction, improvement and maintenance of Bhuket Sub-division; Aug. 1919 to March 1920 studying construction and maintenance of railways and highways in United States; March 1920 to Nov. 1921 and April 1922 to March 1926 Sec. Engr. in charge of Central Div. (over 4 years), of Southern Div. (6 months) and of survey of Ubol Ry. Line (310 km.). (11 months); Nov. 1921 to April 1922 Maintenance Engr., Gengkol Dist.; March 1926 to date Acting Div. Engr., Northern (1 year) and Central Divs. *TT 10.1: P 10.1: RC 9.4: D 0.7. TT 16.5: SP 5.1: P 11.4: RC 10.7: D 0.7.* (Applies in accordance with Sec. I, Art. I, of the By-Laws.)

## 1283

(8) **SCHAD, JAMES ALBERT**, 844 Rush St., Chicago, Ill. (Age 32. Born Baltimore, Md.) 1916 C. E., Univ. of Wis. *TT 2: SP 2.* June 1912 to June 1913 Asst. to Res. Engr., Western Maryland R. R., Hanover, Pa., being Gen. Asst. on construction of engine-house and terminal facilities. *TT 1: SP 1.* Summers 1913-1915 Inspector, on sewer construction, Baltimore (Md.) Sewerage Comm., and on highway construction, Maryland State Roads Comm. July 1916 to April 1917 Engr. Surveyor, Wisconsin State Highway Comm., on surveys and designs of highway construction. *TT 0.9: SP 0.3: P 0.6: D 0.3.* May 1917 to Feb. 1918 Draftsman, W. M. R. R. *TT 0.9: SP 0.9.* March 1918 to March 1919 in air service, U. S. Army. June 1919 to May 1920 Draftsman and Designer, Kalman Steel Co., Milwaukee, Wis., estimating and designing reinforced concrete construction. *TT 0.9: SP 0.5: P 0.4: RC 0.4.* May 1920 to April 1921 Engr., M. A. Long Constr. Co., Baltimore, being Asst. to Chf. Engr. of Constr. on plant of Columbia Grafanola Co. *TT 0.8: SP 0.6: P 0.2.* April to Nov. 1921 Constr. Draftsman, Stone & Webster, Inc., on American Sugar Refinery Co. plant at Baltimore. *TT 0.6: SP 0.6.* Nov. 1921 to Sept. 1922 Asst. Bldg. Engr., Industrial Comm. of Wisconsin, enforcing State Bldg. Code. *TT 0.8: P 0.8: RC 0.8.* Sept. 1922 to April 1926 Engr., Corrugated Bar Co. and Kalman Steel Co. (merged in 1924), St. Paul and Chicago, estimating, designing and selling reinforcing steel and allied building products, 1 year being Dist. Engr. in St. Paul, Minn. *TT 3.8: P 3.8: RC 1.3: D 3.8.* May 1926 to date Asst. Engr., The Gypsum Industries, Chicago, principally as Asst. to Chf. Engr. *TT 1.2: P 1.2: RC 1.2. TT 12.9: SP 5.9: P 7: RC 3.3: D 4.5.* Refers to A. P. Clark, C. R. Harding, A. E. Lindau, J. P. Schwada, H. G. Shirley, W. S. Thomson, F. E. Turneure.

## 1284

(4) **SCHRADER, WALTER EDWIN**, 1201 Maple St., Bethlehem, Pa. (Age 25. Born Dickson City, Pa.) 1927 C. E., Lehigh Univ. *TT 2: SP 2.* June 1927 to date Instructor, Lehigh Univ. Summer Surveying Camp. *TT 0.1: P 0.1. TT 2.1: SP 2: P 0.1.* Refers to S. A. Becker, R. J. Fogg, H. G. Payrow, W. W. Wilson.

## 1285

(6) **SELDEN, EDWARD WORTHINGTON**, Glen Ferris, W. Va. Graduating student awarded Virginia Section prize. (Age 22. Born Charles Town, W. Va.) B. S. in E., and 1927 C. E., Univ. of Va. *TT 2: SP 2.* Summer 1926 Levelman, Tidewater Hardwood Corporation, Bacova, Va. June 1927 to date Instrumentman, New-Kanawha Power Co., Glen Ferris, W. Va. *TT 0.1: SP 0.1. TT 2.1: SP 2.1.* Refers to O. M. Jones, L. H. Williamson.

1286

(1) **SHADRAKE, BOLICK JOHN**, 108-48 Liverpool St., Jamaica, N. Y. (Age 22. Born Kolesnicki, Poland.) 1927 S. B., Mass. Inst. Tech. *TT 2: SP 2.* Refers to H. K. Barrows, C. M. Spofford.

1287

(1) **SHAND, NINHAM**, Steenbras Pipe Line, P. O. Lansdowne, Cape Province, South Africa. (Age 28. Born Middleburg, Cape Province.) 1919 B. S. in Eng., Univ. of Cape Town. *TT 2: SP 2.* March 1920-Feb. 1923 Jun. Asst. Engr., Kamanassie Irrigation Works, mass concrete gravity dam and 15-mile section of canal, instrument work, measuring and computing quantities and supervisory work. *TT 3: P 3: RC 1: D 0.5.* March 1923 to Feb. 1924 with A. W. Menkins, Contr., as Asst. Engr., in Western Transvaal, in charge of construction of four country grain elevators, reinforced concrete and structural steel. *TT 1: P 1: RC 1.* July to Nov. 1926 with U. S. Reclamation Service, on computations and inspection, Kittitas Div., Yakima Project, Wash. *TT 0.3: P 0.3.* Feb. 1924 to April 1926 and April 1927 to date with Cape Town Corporation, until April 1926 as Chf. Asst. Engr. in charge of construction and design, on Steenbras dam (mass concrete gravity), earth embankment and 7-mile mountain road and railway, since April 1927 Dist. Engr. in charge of construction of Steenbras pipe line, 11½-mile section of 34-in. concrete lined welded steel pipe line. *TT 2.4: P 2.4: RC 2.4: D 1. TT 8.7: SP 2.3: P 6.4: RC 4.4: D 1.5.* Refers to W. R. Young. (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

1288

(11) **SHAPCOTT, WALLACE GILBERT**, Care, City Engr., City Hall, Colorado Springs, Colo. (Age 39. Born Cheyenne, Wyo.) 1913 B. S. in C. E., Colo. Coll. *TT 2: SP 2.* June 1913 to July 1917 U. S. Surveyor, with U. S. Surveyor General, Denver, Colo., on surveys of public lands, etc., in charge of field party and camp. *TT 4.1: P 4.1: RC 4.1.* Aug. 1917 to July 1919 Capt., F. A., U. S. Army, 1½ years in France. 1920 and 1921 with State Highway Dept., Cheyenne, Wyo., as Draftsman, Transitman, and Res. Engr. on construction (4½ miles), Encampment, Wyo. *TT 2: SP 0.6: P 1.4: RC 1.4.* May to Oct. 1922 Chf. Draftsman, Div. Engr.'s office, Delaware & Rio Grande Western R. R., drafting station maps, field notes for bridge surveys, computations, etc. *TT 0.5: SP 0.5.* Nov. 1922 to June 1926 Asst. Engr., Weiland Eng. Co., Pueblo, Colo., drafting, design, surveys, reports and construction of water-works, sanitary sewers, drainage and irrigation projects, municipal paving districts, flood protection and control, hydro-electric power developments, stream flow measurements, etc. *TT 3.6: SP 1: P 2.6: RC 2: D 0.6.* July 1926 to May 1927 in charge of Constr. Supt.'s Office, Colorado Fuel & Iron Co., Minnequa Works, Pueblo, Colo., being Material Checker and Keeper of costs on erection of a mill (steel, \$2 000 000). *TT 0.9: SP 0.9.* June 1927 to date Asst. City Engr., Colorado Springs, Colo., design, construction and office work on curb and gutter districts, sanitary sewer trunk extensions and paving. *TT 0.2: P 0.2: RC 0.1: D 0.1. TT 13.3: SP 5: P 8.3: RC 7.6: D 0.7.* Refers to R. I. Meeker, E. L. Mosley, F. M. Okey, F. O. Ray, A. A. Weiland.

1289

(15) **SMITH, FRANK MILLER, Jr.**, Box No. 538, Bryan, Tex. (Age 26. Born Paris, Tex.) 1927 B. S., Tex. Agri. and Mech. Coll. *TT 2: SP 2.* Aug. 1921 to Feb. 1922 Asst. in office of Smith Bros. and Healey Constr. Co. of Dallas, Tex. *TT 0.6: SP 0.6.* July 1922 to March 1924 with Julian C. Field & Co. of Denison, Tex., in charge of office and Foreman on drainage structures, at Honey Grove and Paris, Tex. *TT 1.7: SP 1.7.* April to Aug. 1924 Concrete Inspector and Instrumentman for County Engr. of Fannin County, Tex. Summer 1926 City Engr., at Bryan, Tex. *TT 0.3: P 0.3. TT 4.6: SP 4.3: P 0.3.* Refers to J. T. L. McNew, T. A. Munson, J. J. Richey.

1290

(9) **STARK, ARTHUR HENRY**, 3916 Mapledale Ave., Cleveland, Ohio. (Age 22. Born Cleveland, Ohio.) 1927 B. S. in Civ. Eng., Case School of Applied Sci. *TT 2: SP 2.* Refers to C. A. Miller, F. H. Neff.

1291

(3) **STARK, RAYMOND JOHN**, Care, Y. M. C. A., Church and State St., Elmira, N. Y. (Age 23. Born Buffalo, N. Y.) 1927 C. E., Rens. Pol. Inst. *TT 2: SP 2.* Refers to E. R. Cary, L. W. Clark, H. B. Compton, T. R. Lawson, P. C. Ricketts.

1292

(11) **STEINHAUER, GEORGE NATHAN**, 650 Williams St., Denver, Colo. (Age 21. Born Denver, Colo.) 1927 B. S. in C. E., Univ. of Colo. *TT 2: SP 2.* Five summers Rodman, Transitman and Inspector, with City of Denver, Colo. June 1927 to date with Mountain States Telephone & Telegraph Co., taking student training course. *TT 0.1: SP 0.1. TT 2.1: SP 2.1.* Refers to R. L. Downing, F. R. Dungan, C. L. Eckel, H. J. Gilkey, J. B. Marcellus.

## 1293

(4) STEWART, THOMAS WILLIAM, 221 West Rogers Ave., Merchantville, N. J. (Age 22. Born Philadelphia, Pa.) 1927 Graduated in Mun. Eng., Drexel Institute Evening School. Sept. 1922 to Oct. 1923 with Morris C. Pommel, Merchantville, N. J., as Asst. to Contr. on construction of concrete and frame buildings. *TT 1.1: SP 1.1.* May 1925 to May 1927 with Dept. of City Transit, Philadelphia, Pa., until Sept. 1926 as Jun. Asst. Engr., being Chief of Party in charge of 1 400 ft. of subway layout and construction, etc., then Chief of Party on track layout, and assisting on alignment computations. *TT 2: P 2.* Mar. 1924 to May 1925 Rodman and Junior Engr., and May 1927 to date Asst. Civil Engr., with New Jersey State Highway Dept., surveying, computing, drafting, etc. *TT 1.4: SP 1.4. TT 4.5: SP 2.5: P 2.* Refers to T. Buckley, F. C. Claus, E. H. Maier, R. C. Scott, J. A. Williams.

## 1294

(1) STRICKLAND, RICHARD PORTER, 17 Martling Ave., Pleasantville, N. Y. (Age 21. Born Philadelphia, Pa.) 1927 B. S. in C. E., Pa. State Coll. *TT 2: SP 2.* June 1927 to date Computer on surveys, with Applebee & Slater, Ossining, N. Y. *TT 0.1: SP 0.1. TT 2.1: SP 2.1.* Refers to R. O'Donnell, E. D. Walker.

## 1295

(13) TABOR, HENRY WHITNEY, Camp 21, Big Creek, Cal. (Age 33. Born Escondido, Cal.) 1916 B. S. in C. E., and 1921 C. E., Univ. of Wis. *TT 2: SP 2.* June 1916 to Oct. 1917, and March to Sept. 1919 with U. S. Reclamation Service, successively as Instrumentman, Surveyman, Junior Engineer and (after March 1919) Operation and Maintenance Engr. on estimates and plans for and construction of concrete-structures, tile and wood-stave pipe, to replace wooden structures, ditches and flumes, field work, etc. *TT 1.8: SP 0.5: P 1.3: D 0.2.* Oct. 1917 to March 1919, with U. S. Army Engrs. as private, 2nd and 1st Lieut. *TT 1.5: SP 0.8: P 0.7.* Sept. 1919 to Feb. 1920 at Univ. of Wisconsin, Research work on flow of water in pipe bends, and graduate work in Hydraulics and structures. *TT 0.3: P 0.3.* Feb. 1920 to June 1922 Instructor, Dept. of Mechanics, Univ. of Wisconsin. *TT 2.3: P 2.3: RC 1.* July 1922 to date with So. Calif. Edison Co., as Tabulator, Field Cost Engr., preparing data for unit costs and checking distribution of charges and materials for power house and dam construction, Transitman, Draftsman on design of footing steel for arch dam, wooden buildings, construction plant layout, etc., Chief of Party on design of structures, etc., supervising field parties on installation of intake gates and dam construction. *TT 5.1: SP 0.6: P 4.5: RC 0.2: D 1. TT 13: SP 3.9: P 9.1: RC 1: D 0.3.* Refers to R. C. Booth, C. P. Conrad, J. G. Heinz, H. C. McDonald, N. T. Olson, E. C. Pantan, H. N. Savage.

## 1296

(1) TAYLOR, WESTERVELT AUGUSTUS, 294 West 137th St., New York City. (Age 22. Born Cambridge, Mass.) 1927 B. S. Mass. Inst. Tech. *TT 2: SP 2.* June 1927 to date Prov. Jr. Asst. Engr. Grade 2 on construction, So. State Parkway, Sec. 3, Nassau County. *TT 0.2: SP 0.2. TT 2.2: SP 2.2.* Refers to W. M. Fife, C. M. Spofford.

## 1297

(1) TETER, GEORGE STAUDT, 1059 New York Ave., Brooklyn, N. Y. (Age 21. Born Pittsburgh, Pa.) 1927 B. S. and C. E., Coll. of City of N. Y. *TT 2: SP 2.* Summer 1926 Jun. Draftsman, Consolidated Tel. and Elec. Subway Co. July 1927 to date, Plant Asst., Newark Concrete Pipe Co. *TT 0.1: SP 0.1. TT 2.1: SP 2.1.* Refers to R. E. Goodwin, F. O. X. McLoughlin.

## 1298

(8) THOMAS, MILES, 5719 West Superior St., Chicago, Ill. (Age 24. Born Chicago, Ill.) 1927 B. S. in Civ. Eng., Univ. of Ill. *TT 2: SP 2.* Refers to G. W. Pickels, F. E. Richart,

## 1299

(11) THWAITS, EDMOND HARRISON, 669 Lafayette St., Denver, Colo. (Age 31. Born Milwaukee, Wis.) 1925 B. S. in C. E., and 1926 M. S. in C. E., Univ. of Wis. *TT 2: SP 2.* Summer 1915 on line construction, Milwaukee Elec. Co. Summer 1916 on Mexican Border as Private, Wisconsin National Guard, building a camp. Summer 1917 Draftsman, with Geo. W. Fossum, Archt., Aberdeen, S. Dak. Oct. 1917 to July 1918 Asst. Engr., Standard Oil Co. of Indiana, at Casper (Wyo.) Refinery. *TT 1.2: SP 1.2.* Aug. to Dec. 1918 graduated as 2d Lieut., Field Artillery Central Officers' Training School, work included ballistics, field gunnery, reconnaissance surveys, map making, etc. *TT 0.4: SP 0.4.* Jan. to Sept. 1919 Chf. Engr., Sunset Oil & Refining Co., Ft. Worth, Tex., on design of plant, pipe line, etc. *TT 0.8: SP 0.8.* July 1920 to Jan. 1921 in various departments, Northwestern Malleable Iron Works. *TT 0.5: SP 0.5.* June 1921 to Sept. 1923 with Welland Eng. Co., Pueblo, Colo., until June 1922 as Asst. Engr. on general engineering, surveying and designing, supervising construction of water-works, sewer systems, paving, power plants, etc. (cost \$500 000); then Gen. Mgr., Canon City office, Acting City Engr., kept office supplied with work, made surveys, designs, supervised construction (approx. \$500 000) water and sewer systems, paving, etc. *TT 2.2:*

P 2.2: RC 1.7: D 1.7. June 1925 to Feb. 1926 with W. G. Kirchoffer, San. and Hydr. Engr., Madison, Wis., as Res. Engr. in charge of sanitary survey for sewage-disposal plant and interceptors (approx. \$100 000) for Appleton, Wis. and later on office computation and design of the plant; after Sept. 1925 also graduate student, Univ. of Wis. TT 0.8: P 0.8: RC 0.8. March 1926 to date Associate Member, Wood & Weber, Inc., Denver, Colo., established Civ. Eng. Dept., supplying office with work, making surveys, designs, supervising water and sewer systems, paying and power plants (estimated cost of work \$250 000). TT 1.5: P 1.5: RC 1.5: D 1.5. TT 9.4: SP 4.9: P 4.5: RC 4: D 3.2. Refers to L. R. Douglass, D. E. Kepner, D. W. Mead, F. O. Ray, L. F. Van Hagan, A. A. Welland.

## 1300

(10) TOMLINSON, GEORGE EDMUND, Gulfport, Miss. (Age 21. Born Gulfport, Miss.) B. A., M. A., and 1927, B. E., Univ. of Miss. TT 2: SP 2. Summer 1925 with Dept. of Eng., Harrison County, Miss. Sept. 1926 to June 1927 (while student), Teaching, Dept. of Physics and Mathematics, Univ. of Miss. TT 2: SP 2. Refers to J. H. Dorroh, W. S. Hawkins, H. D. Shaw.

## 1301

(4) VERNON, ABNER JOSEPH, 188 North Franklin St., Wilkes-Barre, Pa. (Age 26. Born Jersey City, N. J.) 1927 B. S. in C. E., Cooper Union Inst. Tech. TT 2: SP 2. Summer 1926 Computer, Montauk Beach Development Corporation, on road traverses and land subdivision. May 1927 to date Appraiser, Federal Water Service Corporation, appraisal of Spring-Brook Water Co., Wilkes-Barre, Pa. TT 0.2: SP 0.2. TT 2.2: SP 2.2. Refers to F. E. Foss, G. Morrison.

## 1302

(11) VIDAL, EMILE NUMA, 900 Sherman St., Denver, Colo. (Age 26. Born Denver, Colo.) Sept. 1918 to June 1921 student, Coll. of Eng., Univ. of Colorado. TT 1: SP 1. Dec. 1923 to July 1925 with Denver Municipal Water Works, as Chairman (3 months), Mapmaker and Draftsman. TT 1.5: SP 1.5. July 1925 to date Senior Eng. Draftsman, Bureau of Reclamation, Denver, Colo., until Sept. 1926, acting as Tracer, then on detail and minor design; July 1927 appointed Inspector. TT 2: SP 1.2: P 0.8. TT 4.5: SP 3.7: P 0.8. Refers to J. J. Doland, W. B. Freeman, S. O. Harper, I. E. Houk, B. Lowther, W. H. Nalder, J. L. Savage.

## 1303

(1) VIEIRA, EMYGDIO de MORAES, P. O. Box 70, Campos, Rio de Janeiro, Brazil. (Age 33. Born Ceara, Brazil.) 1917 C. E., and Geographical Engr., Pol. School of Rio de Janeiro Univ. TT 2: SP 2. April 1917 to April 1918 Asst. Engr. of Petropolis, surveys, municipal improvements. TT 1: SP 0.5: P 0.5. April 1918 to April 1921 Res. Engr. of Constr., The Leopoldina Ry. Co., Ltd., on bridges, drainage, etc. TT 3: P 3: RC 2: D 0.5. April 1921 to April 1924 City Engr. of Campos, Rio de Janeiro, on roads, streets and highways. TT 3: P 3: RC 3. April 1924 to date Engr., State of Rio de Janeiro, in charge on sewers, water supplies, flood protection, etc. TT 3.3: P 3.3: RC 3.3. TT 12.3: SP 2.5: P 9.8: RC 8.3: D 0.5. Refers to A. F. de Lima Campos, T. A. Ramos, G. Ribeiro, V. da Silva Freire. (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

## 1304

(3) VINCENT, EVERETT MOHLAR, 40 Park Pl., Goshen, N. Y. (Age 34. Born Tona-wanda, N. Y.) 1915 C. E., Cornell Univ. TT 2: SP 2. July 1915 to Aug. 1916 Jun. Asst. Engr., New York State Barge Canal, at Amsterdam and Schenectady, N. Y., on layout, inspection of construction and estimates on bridge at Amsterdam, etc. TT 1: SP 1. Aug. 1916 to Jan. 1918 Jun. Asst. Engr., New York Highway Dept., Poughkeepsie Div., being Asst. on surveys, staking out and inspecting construction and 7 months in complete charge on concrete road construction. TT 1.5: SP 0.9: P 0.6: RC 0.6. Jan. to May 1918 and Sept. 1919 to Feb. 1920 Draftsman, Erie R. R. Co., New York City, on track layout and design of standards for switches, cross-overs, ladder tracks, etc. TT 0.8: P 0.8. May 1918 to Sept. 1919 with 29th Engrs., A. E. F., in France and Germany. TT 1.3: SP 1.3. Feb. 1920 to Jan. 1921 Draftsman and Designer, Chile Exploration Co., New York City, on foundations and other concrete work on plants for copper production. TT 0.8: SP 0.4: P 0.4. Jan. 1921 to March 1922 Draftsman, U. S. Coast and Geodetic Survey, Washington, D. C., plotting soundings and preparing charts for map makers. TT 1: SP 1. March 1922 to date with D. P. Robinson & Co., Inc., New York City as Designer, designing and checking, and (past 3 years) Structural Squad Chf. in complete charge of design and drawings for concrete buildings (beam and girder and flat slab) foundation work and miscellaneous concrete structures, involving power and industrial plants, substations, railway shops, office buildings, warehouses, etc. TT 5.5: P 5.5: RC 3: D 3. TT 13.9: SP 7.4: P 6.5: RC 3.6: D 3. Refers to J. D. Anderson, T. S. Bailey, W. E. Belcher, M. E. James, R. A. Marshall, R. S. Patton, B. H. Wait.



## 1305

(2) VINER, ELI MONIE, 423 Industrial Trust Bldg., Providence, R. I. (Age 37. Born Jassy, Roumania.) 1914 B. S., Brown Univ. TT 2: SP 2. June 1914 to Dec. 1916 Draftsman, Phoenix Bridge Co., Phoenixville, Pa., on structural detailing. TT 2.5: SP 2.5. Dec. 1916 to Oct. 1923 (except 1½ years with U. S. Army) Structural Draftsman, New York, New Haven & Hartford R. R., drafting, field inspection of structures and bridge designing. TT 6.7: SP 4: P 2.7. Oct. 1923 to April 1924 Structural Designer with Stone & Webster, Inc., Boston, Mass., structural designing and checking power-plant structures. TT 0.5: P 0.5. April 1924 to April 1926 Structural Engr., for Jenks & Ballou, Cons. Engrs., Providence, R. I., in charge of structural design, power-plant and miscellaneous building work. TT 2: P 2: RC 2: D 2. April 1926 to date Cons. Engr. at Providence, structural engineering, etc. TT 1.2: P 1.2: RC 1.2: D 1.2. TT 15: SP 8.5: P 6.5: RC 3.2: D 3.2. Refers to H. W. Ballou, R. L. Burpee, C. W. MacCornack, F. J. Pitcher, R. S. Reynolds, P. B. Spencer.

## 1306

(7) VOSBURG, WILLIS HARVEY, 125 East Woodland Ave., Ottumwa, Iowa. (Age 41. Born in Ashtabula County, Ohio.) Over 1½ years student, C. E. course, Ohio State Univ. TT 0.3: SP 0.3. March 1909 to March 1910 Draftsman and Instrumentman, City of Tulsa, Okla. TT 1: SP 1. March to Sept. 1910 Draftsman, Gulf Pipe Line Co. of Oklahoma, on map work on oil fields. TT 0.5: SP 0.5. March 1911 to Sept. 1912 Draftsman, Lehigh & New England R. R. TT 1.5: SP 1.5. Sept. 1912 to date with Chicago, Milwaukee & St. Paul Ry., until 1916 as Instrumentman, then Res. Engr. on engine-terminal construction, being in charge of grading contractors and building work, 1917 to 1926 Asst. Engr. and since 1926 Div. Engr. on maintenance of Kansas City Div., in charge of engineering and (since 1926) all track, bridge and building work. TT 14.8: SP 4: P 10.8: RC 10. TT 18.1: SP 7.3: P 10.8: RC 10. Refers to D. C. Fenstermaker, A. G. Holt, C. T. Jackson, C. F. Loweth, J. S. Morrison.

## 1307

(4) WAGNER, AARON HARRY, 632 Hermitage St., Roxborough, Philadelphia, Pa. (Age 21. Born Philadelphia, Pa.) 1927 B. S. in C. E., Drexel Inst. TT 2: SP 2. June-Dec. 1924 Chairman, Rodman and Instrumentman, June-Dec. 1925 Asst. Inspector of construction on concrete highways (1925) and March to June 1926 Draftsman and Computer on construction and right-of-way, all for Pennsylvania State Highway Dept. TT 1.3: SP 1.3. June 1927 to date with Belmont Iron Works, Estimating Dept., Philadelphia, Pa., listing material from blueprints, computing weights. TT 0.2: SP 0.2. TT 3.5: SP 3.5. Refers to H. L. Bowman, S. J. Leonard, J. P. Shryock, G. P. Springer, L. C. Urquhart.

## 1308

(13) WAIS, JOHN, Jr., Box 675, Merced, Cal. Graduating student awarded San Francisco Section prize. (Age 21. Born Dinuba, Cal.) 1927 A. B., Leland Stanford, Jr., Univ. TT 2: SP 2. Jan. to June 1925 Rodman, and June to Oct. 1925 Gravel Inspector, Merced Irrigation Dist., under Daniel McFarland, Exchequer Dam. Summer 1926 Instrumentman, Feather River Power Co., Storrle, Cal. TT 0.7: SP 0.7. TT 2.7: SP 2.7. Refers to J. A. Kitts, D. R. McFarland, C. Moser, L. B. Reynolds, C. B. Wing.

## 1309

(4) WALTERS, JOHN CLIFFORD, Trappe, Pa. (Age 22. Born Trappe, Pa.) 1927 B. S. in C. E., Drexel Inst. Sept. 1924 to June 1926 (cooperative work while student) with Shoemaker Bridge Co., as Timekeeper on structural detailing, etc. TT 2: SP 2. Refers to H. L. Bowman, S. J. Leonard, S. H. Widdicombe.

## 1310

(3) WESTRA, GEORGE DAVID, Care Y. M. C. A., Elmira, N. Y. (Age 22. Born Whitinsville, Mass.) 1927 B. S., Worcester Pol. Inst. TT 2: SP 2. June 1927 to date Detailer, American Bridge Co., Elmira, N. Y., drafting. TT 0.1: SP 0.1. TT 2.1: SP 2.1. Refers to C. M. Allen, A. W. French, J. W. Howe, A. J. Knight, H. W. Preston, E. A. Taylor.

## 1311

(10) WHILDEN, CARLETON NETTLES, 7 McClelland Ct., Charlotte, N. C. (Age 21. Born Sumter, S. C.) 1927 B. S. in C. E., Clemson Agri. and Mech. Coll. TT 2: SP 2. Refers to E. L. Clarke, E. L. Scruggs.

## 1312

(13) WIGHT, ROLAND HENRY, Box 246, Palo Alto, Cal. (Age 22. Born Washington, D. C.) 1927 A. B. in Civ. Eng., Stanford Univ. Summer 1925 Computer with James S. James, Burlingame, Cal., on laying out a real-estate subdivision. Summer 1926 Computer with Paul Bailey, Sacramento, Cal., on state flood-control study. TT 2: SP 2. Refers to R. F. Brown, A. D. Edmonston, C. Moser, L. B. Reynolds, E. C. Thomas, C. B. Wing.

## 1313

(14) WILKERSON, ROBERT LATHAIR, 3742 Baltimore Ave., Kansas City, Mo. (Age 23. Born Coleman, Fla.) 1927 B. S. C. E., Univ. of Fla. TT 2: SP 2. June 1927 to date Draftsman with Harrington, Howard & Ash, on bridges. TT 0.2: SP 0.2. TT 2.2: SP 2.2. Refers to E. V. Camp, M. Pirnie, P. L. Reed.

## 1314

(11) WILLSON, GEORGE HARRY, 537 West 107th St., Los Angeles, Cal. (Age 38. Born Braddock, Pa.) 1913 to Feb. 1914 with Blaw-Knox Co., detailing and checking structural steel at Blaw-Knox (Pa.) plant. TT 1.2: P 1.2. 1922 to 1923 estimating and selling, Homestead (Pa.) Iron Works. TT 1: P 1. Dec. 1923 to May 1925 detailing and checking structural steel, Virginia Bridge & Iron Works, Roanoke, Va. TT 1.5: P 1.5. 1910 to 1913, 1915 to 1922, part of 1923 and Aug. 1925 to date with McClintic-Marshall Co., detailing and checking structural steel being Squad Boss (about 3½ years) at Rankin Plant, Pittsburgh, Pa.; since Aug. 1925 Chf. Draftsman at Los Angeles, Cal. TT 12.7: P 12.7: RC 5.7. TT 16.4: P 16.4: RC 5.7. Refers to F. H. Finch, M. H. Frincke, R. A. Pendergrass, J. C. Shaw, G. L. Taylor.

## 1315

(11) WINCKEL, EDMOND EMILE, 517 Higgins Bldg., Los Angeles, Cal. (Age 24. Born Nymegen, Holland.) 1925 B. S. in C. E., Cal. Inst. Tech. TT 2: SP 2. June to Oct. 1923 Tracer, So. California Edison Co., Los Angeles, Cal. June 1925 to date Draftsman and Computer, Shell Co. of California on maps, cross-section drawings, computing, etc. TT 2.1: SP 2.1. TT 4.1: SP 4.1. Refers to F. J. Converse, R. R. Martel, W. W. Michael, F. Thomas, J. A. Trudeau.

## 1316

(3) WRAY, THEODORE STRONG, 109 West Ave., Rochester, N. Y. (Age 27. Born Rochester, N. Y.) 1922 B. S., Mass. Inst. Tech. TT 2: SP 2. Nov. 1922 to July 1926 Asst., Engr. Corps, Chicago Terminal Div., Pennsylvania R. R.; maintenance work; designing, estimating and supervising industrial sidetracks; preliminary plans, designing and supervising passenger and freight yard revision; surveys, reports, etc. TT 3.7: SP 1: P 2.7: RC 1.4: D 1.3. July 1926 to date Jun. Structural Engr., Bldg. Dept., Rochester (N. Y.) Board of Education, drafting and design of wood, steel and reinforced concrete school buildings; Field Inspector; preparing joint report on roofing materials and specifications for school busses. TT 1: P 1: RC 0.4: D 0.6. TT 6.7: SP 3: P 3.7: RC 1.8: D 1.9. Refers to J. C. Bell, R. B. Jeffers, A. R. Reilly, C. M. Spofford, C. F. Starr.

## 1317

(10) WRIGHT, CLEM WHARTON, P. O. Box 239, Griffin, Ga. (Age 43. Born Chalybeate Springs, Ga.) Aug. 1906 to Oct. 1909 Rodman and Instrumentman, Atlanta, Birmingham & Atlantic Ry. Co. TT 3.2: SP 3.2. Oct. 1909 to Nov. 1912 with J. G. White Co., New York City, as Instrumentman, and Chf. of Party on topographic surveys. TT 3.1: SP 3.1. Nov. 1912 to March 1915 with Elec. Bond & Share Co., New York City, as Locating Engr. on transmission lines, Salt Lake City, Utah, to Grace, Idaho; in general charge of surveys in Wyoming and Idaho; also Res. Engr. on canal and power-plant construction at Pocatello, Idaho. TT 2.3: P 2.3: RC 2.3: D 2.3. March 1915 to May 1916 Chf. of Survey Party, U. S. War Dept., on survey of 150 miles of river. TT 1.2: P 1.2: RC 1.2. May 1916 to Jan. 1917 with Carolina Power & Light Co., Raleigh, N. C., as Engr. in charge of transmission and topographic surveys in North Carolina and South Carolina. TT 0.7: P 0.7: RC 0.7: D 0.7. Jan. 1917 to Nov. 1918 with J. G. White Co., Sheffield, Ala., as Asst. Res. Engr., on construction of nitrate plant, also in charge of surveys. TT 1.8: P 1.8. Nov. 1918 to April 1919 Res. Engr., Tennessee Coal, Iron & Ry. Co., Birmingham, Ala., on construction of steel plant and sewer system. TT 0.4: P 0.4: RC 0.4: D 0.4. April 1919 to date with State Highway Dept. of Georgia, until Feb. 1926 as Res. Engr. on location and construction of timber and concrete bridges, paving and grading of roads; and since then Div. Engr. in charge of all construction, maintenance of roads and bridges, supervision of Div. Office (19 counties), etc. TT 7.2: P 7.2: RC 7.2: D 7.2. TT 19.9: SP 6.3: P 13.6: RC 11.8: D 10.6. Refers to R. E. Adams, J. H. Johnston, W. R. Neel, T. M. Neibling, C. L. Rhodes, E. N. Seymour, S. B. Slack.

## 1318

(7) WYLLIE, GEORGE FAIR, 615 Monroe St., Ann Arbor, Mich. (Age 24. Born Durand, Mich.) 1927 B. S. in C. E., Univ. of Mich. Summer 1926 Draftsman with Hoad, Decker, Shoecraft & Drury, Cons. Engrs., Ann Arbor, Mich. TT 2: SP 2. Refers to L. M. Gram, W. C. Hoad, R. H. Sherlock.

1319

(15) YEATTS, ERNEST BAILEY, 2733 Hickory St., Abilene, Tex. (Age 22. Born Denton, Tex.) A. B., Simmons Univ., Abilene, Tex. 1927 B. S. in C. E., Rice Inst. Summer 1925 Constr. Inspector, and summer 1926 in charge of field party on curb and pavement lines and grades, Eng. Dept., Abilene, Tex. July 1927 to date Draftsman, Texas State Highway Dept., at Abilene. TT 2: SP 2. Refers to J. M. Howe, L. B. Ryon, Jr.

## FOR TRANSFER

## FROM THE GRADE OF ASSOCIATE MEMBER

1320

(14) BOYLE, BLAIR, Assoc. M., Court House, Winfield, Kans. (Elected July 6, 1920.) (Age 46. Born Patriot, Ind.) 3 years student in Civ. Eng., Purdue Univ. TT 1: SP 1. June 1906 to Feb. 1907 Instrumentman and Draftsman, Louisville & Nashville Ry. TT 0.7: P 0.7. Feb. to Aug. 1907 Draftsman on sewer plans, R. E. McMath Surveying Co., St. Louis. TT 0.6: P 0.6. Sept. 1907 to April 1909 Surveyor, Mississippi River Comm., Memphis, Tenn., in charge of hydrographic surveys and steamboat plant for same. TT 1.7: P 1.7: RC 1. May to Nov. 1909 Draftsman, Quanah, Acme & Pacific Ry. TT 0.6: P 0.6. Jan. to Oct. 1910 Engr., J. W. Maxcy Co., Houston, Tex., in charge of surveys for power, highway and municipal projects. TT 0.8: P 0.8: RC 0.8: D 0.5. Nov. 1910 to May 1912 City Engr., Altus, Okla., on design and construction of sewers, water-distributing plant and paving. TT 1.6: P 1.6: RC 1.6: D 1.6. July 1912 to Aug. 1913 with Dunkirk (N. Y.) Constr. Co., as Foreman on street paving, then Supt. in charge of highway construction contract. TT 1.1: SP 1.1: RC 1.1. Aug. 1913 to Oct. 1914 with Eng. Dept., Cincinnati, Ohio, as Draftsman in Street Dept., then Chf. of Field Party on surveys for rapid transit subway system. TT 1.2: P 1.2: RC 1: D 0.2. Jan. 1915 to Oct. 1917 Res. Engr., The Little River Drainage Dist. of Cape Girardeau, Mo., in field charge of swamp drainage with floating dredge equipment. TT 2.8: P 2.8: RC 2.8. Oct. 1917 to Feb. 1918 Asst. Engr., Scott County, Mo., on surveys for highway construction. TT 0.3: P 0.3: RC 0.3. Feb. 1918 to date County Engr., until Sept. 1919 of Geary County, then of Bourbon County, and since March 1926 of Cowley County, Kans., in responsible charge of highway and bridge design, construction and maintenance. TT 9.3: P 9.3: RC 9.3: D 9.3. TT 21.7: SP 2.1: P 19.6: RC 17.9: D 11.6. Refers to L. E. Conrad, F. W. Epps, C. E. Jacoby, C. R. Mandigo, L. B. Smith, O. K. Williamson, A. R. Young.

1321

(5) BRINKLEY, MILO HAMILTON, Assoc. M., Interstate Commerce Comm., Washington, D. C. (Elected Junior March 1, 1904; Assoc. M. Jan. 8, 1908.) (Age 46. Born Linneus, Mo.) L. L. B., George Washington Univ. 1903 B. S. in C. E., and 1906 C. E., Univ. of Mo. TT 2: SP 2. June 1903 to July 1904 Eng. Aid., U. S. Reclamation Service, acting as Transitman and Topographer. TT 1.1: SP 1.1. July to Dec. 1904 Transitman, Great Northern Ry. TT 0.4: SP 0.4. Jan. to May 1905 Draftsman with Purdy & Henderson, Chicago, on structural steel in buildings. TT 0.4: SP 0.4. May 1907 to Feb. 1908 Track Engr., Spokane, Portland & Seattle Ry., in charge of 150 miles of track laying and surfacing. TT 0.8: P 0.8: RC 0.8. May 1905 to May 1907 and Sept. 1908 to Feb. 1911 with Great Northern Ry., engaged as follows: May 1905 to Aug. 1906 Res. Engr. in Nebraska in charge of construction (10 miles), including plate girder pile bridge across Platte River (thirty-six 80-ft. spans) and later in charge of ballasting new track (100 miles); Aug. to Nov. 1906 Locating Engr. on 50 miles; Nov. 1906 to May 1907 Asst. Engr., M. of W., Seattle Terminals; Sept. 1908 to June 1909 Res. Engr. in charge of construction of heavy rock work and an 800-ft. tunnel; June 1909 to April 1910 Locating Engr. on reconnaissance and location in Cascade Mts., located 60 miles of branch line and revision of main line; April 1910 to Feb. 1911 Constr. Engr., in charge of revision of main line, Cascade Mts., including heavy rock work, 2 miles of timber and 1 500 ft. of reinforced concrete snowshed, two reinforced concrete culverts (spans 40 ft.), 5 miles of pipe line and twelve buildings (total cost \$1 500 000). TT 4.5: SP 0.4: P 4.1: RC 2.5. Feb. to Oct. 1911 Field Engr., New York Central R. R., in charge of inventory parties Albany to New York City. TT 0.7: P 0.7: RC 0.7. Nov. 1911 to Dec. 1912 Asst. Engr., J. G. White & Co., acting as Cost Engr. on valuation of canals, pipe lines and dams of power and water companies in California. TT 1.1: P 1.1. Jan. 1913 to June 1918 Asst. Engr., R. R. Comm. of California, in charge of valuation of Southern Pacific R. R. and later of Spring Valley and other water companies; also made reports on service and rates. TT 5.5: P 5.5: RC 5.5. July 1918 to Oct. 1919 Capt., Engrs., U. S. Army. TT 1.3: P 1.3. Oct. 1919 to date with Interstate Commerce Comm., until March 1923 as Valuation Analyst, analyzing engineering, land and accounting reports and tentative valuations of railroads; since March

1923 Valuation Examiner, hearing valuation cases, reviewing expert testimony and writing final decisions on railroad valuations, including some of the larger systems. *TT 8: P 8: RC 4.5: TT 25.8: SP 5.6: P 20.2: RC 14: D 2.* Refers to G. H. Binkley, H. T. Cory, C. Hansel, P. E. Harroun, A. H. Hogeland, H. S. Kleinschmidt, C. H. Quimby, Jr., C. J. Rhodin, G. F. Swain.

## 1322

(10) **CRAVEN, AARON SANFORD**, Assoc. M., P. O. Box 848, Coral Gables, Fla. (Elected March 12, 1918.) (Age 41. Born Telford, Pa.) Dec. 1905 to Aug. 1906 Rodman and Instrumentman, Philadelphia & Western R. R. *TT 0.7: SP 0.7.* Sept. 1906 to May 1907 Instrumentman, Philadelphia Rapid Transit Co. *TT 0.7: SP 0.7.* June to July 1907 Inspector on pile-driving and timber trestle construction, Shore Fast Line R. R. for Stern & Silverman, Inc., Philadelphia. *TT 0.2: SP 0.2.* Aug. 1907 to May 1909 Rodman and Transitman, Philadelphia Rapid Transit Co. *TT 1.8: SP 1.8.* June to Aug. 1909 Supt. for construction of Millville (N. J.) Sewage-Disposal Plant for David Thomas, Contr., Woodbury, N. J. *TT 0.2: P 0.2.* Sept. 1909 to Nov. 1914 with Francis J. Boas, Civ. Engr. and Gen. Contr., Philadelphia, as Engr. and Supt. of Constr.; constructed railroad and highway bridges, a sewage-disposal plant, dams and a water-works, highways and various other municipal structures in Pennsylvania and Connecticut. *TT 5.3: P 5.3: RC 5.3.* Dec. 1914 to April 1915 various private work in Philadelphia. *TT 0.4: P 0.4.* May 1915 with C. P. Bowser as Gen. Asst. on estimates and municipal construction in Philadelphia. *TT 0.1: P 0.1.* June 1915 to April 1920 Chf. Engr. for Edwin H. Vare, Gen. Contr., Philadelphia, in direct charge of construction of concrete roundhouse for Pennsylvania R. R. Co., at Wilmington, Del., boulevard and oil stills for Atlantic Refining Co., also bridges, highway paving, sewers, etc. *TT 4.9: P 4.9: RC 4.9: D 4.9.* May 1920 to Aug. 1924 member of firm, Beam-Craven Co., Philadelphia, in charge of design and construction of river intakes, dams and pipe lines, including installation of 72-in. steel pumping main at Torresdale Filter Plant, Philadelphia. *TT 4.3: P 4.3: RC 4.3: D 4.3.* Sept. 1924 to Dec. 1925 Cons. and Constr. Engr. for various private interests on bridge and sewer construction. *TT 1.3: P 1.3: RC 1.3: D 1.3.* Jan. 1926 to date Vice-Pres. and Chf. Engr., Coral Gables (Fla.) Constr. Co., in charge of highway and sidewalk construction, timber bridges, construction of water and electric supply for Coral Gables (cost for this period approx. \$985 000); also Chf. Engr., Coral Gables Corporation, in charge of design and inspection of work let to contractors, including a contract for dredging, mangrove clearing, highway paving and concrete sidewalk (cost about \$1 531 000); also Cons. Engr. to City Comms. of Coral Gables and in charge of inspection on a highway contract (completed, cost \$1 642 000), including highway paving, grading, oiling, and concrete sidewalk, curb and driveways. Since May 1920 also Cons. Engr. for Tunnel Machine Mfg. & Eng. Co. of Philadelphia. *TT 1.6: P 1.6: RC 1.6: D 1.6.* *TT 21.5: SP 3.4: P 18.1: RC 17.4: D 12.1.* Refers to C. Elcock, C. S. Nichols, C. F. Puff, Jr., H. H. Quimby, A. G. Singer, C. H. Stevens.

## 1323

(14) **GREEN, RICHARD OSCAR**, Assoc. M., 1551 South Twenty-First St., Lincoln, Nebr. (Elected Oct. 11, 1920.) (Age 40. Born near McCook, Nebr.) 1911 B. S. in C. E., Univ. of Nebr. *TT 2: SP 2.* Feb. 1909 to Sept. 1910 with Chicago, Burlington & Quincy R. R., as Field Draftsman, Topographer and Transitman, also Asst. Div. Engr. on construction in Wyoming, Colorado and Montana. *TT 1.6: SP 1.6.* Feb. to June 1911 on drainage, irrigation, sanitary sewer and other surveys. *TT 0.3: SP 0.2: P 0.1: RC 0.1.* June 1911 to Jan. 1913 Field Engr., Columbia Valley Irrigated Fruit Lands, Ltd., Invermere, B. C., Canada, on location and construction of canals and laterals, subdivision surveys and maps. *TT 1.5: P 1.5: RC 1: D 0.5.* March 1913 to June 1917 Supt. and Engr., Frenchman Valley Irrigation Dist. (10 000 acres) at Culbertson, Nebr., on reconstruction and operation of system; winters designed and built new structures. *TT 4.3: P 4.3: RC 3.8: D 0.5.* June 1917 to June 1919 Field Engr., State of Nebraska, on surveys and road plans. *TT 2: P 2: RC 1: D 1.* June 1919 to June 1927 Div. Engr. and (since 1923) Dist. Engr., Nebraska Dept. of Public Works (Dist. 10 to 18 counties) on highway location, construction and maintenance, including recommendations for design of drainage structures; at times (total about 1½ years) Supt. of State Constr., in charge of three camps on grading projects. June 1927 to date Executive Secy., Nebraska Chapter of Associated Gen. Contrs. of America. *TT 8: P 8: RC 7: D 1.* *TT 19.7: SP 3.8: P 15.9: RC 12.9: D 3.* Refers to A. W. Andrews, G. L. Campen, F. T. Darrow, W. Grant, H. V. Knouse, C. E. Mickey, D. H. Sawyer.

## 1324

(3) **HARRISON, FRANK EARLE**, Assoc. M., 960 Wendell Ave., Schenectady, N. Y. (Elected June 7, 1926.) (Age 34. Born Syracuse, N. Y.) 1917 C. E., Rens. Pol. Inst. *TT 2: SP 2.* June to Nov. 1917 Transitman, and Nov. 1917 to May 1920 Chf. Transitman, New York Central R. R. Co., Buffalo, N. Y. *TT 2.9: SP 0.4: P 2.5: RC 1.3: D 1.2.* May 1920 to Jan.



1924 First Asst. Engr., Jan. 1924 to Jan. 1926 Deputy City Engr., and Jan. 1926 to date City Engr., City of Schenectady, N. Y. *TT 7.2: P 7.2: RC 4.4: D 0.3. TT 12.1: SP 2.4: P 9.7: RC 5.7: D 4.5.* Refers to E. Devendorf, H. P. Eddy, W. B. Landreth, T. R. Lawson, F. P. McKibben, G. S. Thompson, A. Vogel, W. E. Weller.

## 1325

(2) LARKINS, EDGAR ERNEST, Assoc. M., 139 Orange St., New Haven, Conn. (Elected Sept. 6, 1910.) (Age 43. Born Staunton, Ind.) 1905 B. S., 1908 M. S., and 1910 C. E., Rose Pol. Inst. *TT 2: SP 2.* July 1905 to Jan. 1906 with M. of W. Dept., Chicago & Eastern Illinois R. R., maintenance-of-way work, engine-house design and construction. *TT 0.5: SP 0.5.* Jan. 1906 to Nov. 1907 Asst. Engr., Union Pacific R. R., Omaha, Nebr., in charge of 6 miles of heavy construction. *TT 1.9: P 1.9.* May 1908 to Nov. 1912 with City Engr.'s office, Omaha, in charge of sewer construction, plans for six proposed viaducts, etc.; about 1 year also member of Consolidated Eng. Co., Omaha, on sewer systems, pavements, etc., for small town in Nebraska. *TT 4.5: P 4.5: RC 4: D 4.* Nov. 1912 to March 1913 Engr., Bureau of Bldgs., Omaha, supervising construction of reinforced concrete schools, theatres, etc. *TT 0.3: P 0.3: RC 0.3.* March 1913 to March 1916 Engr., Larkin Co., Buffalo, N. Y., on design of steel and reinforced concrete warehouses and factory buildings, factory maintenance, etc. *TT 3: P 3: D 3.* March 1916 to Jan. 1921 with International Ry. Co., Buffalo, 2 years as Bridge Engr. in charge of design of substructures and construction of substructures and superstructures of thirteen bridges on high speed line to Niagara Falls; design of Lockport Depot; design and construction of two substation buildings; 3 years Engr., Bridges and Bldgs., in charge of maintenance, construction, appraisal and valuation. *TT 4.8: P 4.8: RC 4.8: D 4.8.* Jan. 1921 to Nov. 1922 on various work, including water system for J. N. Adam Memorial Hospital, Perrysburg, N. Y., for City of Buffalo. *TT 1.9: SP 1.4: P 0.5: RC 0.5: D 0.5.* Nov. 1922 to May 1923 Supt. for Albert Kahn, Archt., Detroit, on construction of Chevrolet Motor Co. Plant at Buffalo. *TT 0.5: P 0.5: RC 0.5.* May 1923 to Oct. 1924 with Niagara, Lockport & Ontario Power Co., on real-estate surveys, etc. *TT 1.4: SP 1: P 0.4: RC 0.4.* Oct. 1924 to March 1925 with County Engr.'s Office, Buffalo, on survey of proposed 25-mile Lake Shore Road. *TT 0.4: P 0.4: RC 0.4.* March to July 1925 with Eng. Dept., Turner Constr. Co., New York City, on industrial building layouts. *TT 0.3: SP 0.3.* July to Aug. 1925 with Guggenheim Bros., New York City, on reinforced concrete design. *TT 0.1: P 0.1: D 0.1.* Aug. to Nov. 1925 Supt. for Whitney-MacDonald, Inc., Contrs., Philadelphia, Pa., on construction of solid welded 16-in. water main across Schuylkill River, Reading, Pa. *TT 0.2: P 0.2: RC 0.2.* Jan. to Feb. 1926 with Honolulu Iron Co. and Elec. Bond & Share Co., on various work. *TT 0.1: SP 0.1.* Feb. to May 1926 Owner's Supt. on construction of 7-story reinforced concrete factory building for L. A. Dreyfus Co., Rosebank, N. Y. *TT 0.2: P 0.2: RC 0.2.* June to July 1926 with J. A. L. Waddell, Cons. Engr., New York City, on bridge substructure design. *TT 0.1: P 0.1: D 0.1.* Aug. to Sept. 1926 with Fuller & McClintock, Cons. Engrs., New York City, on sanitary work at Asbury Park. *TT 0.1: P 0.1: RC 0.1.* Oct. 1926 to March 1927 Structural Engr. with H. S. Bell, Cons. Petroleum Engr., New York City, on design of steel and reinforced concrete in connection with oil refinery design. *TT 0.4: P 0.4: D 0.4.* April 1927 to date Asst. Structural Engr. with Westcott & Mapes, Inc., New Haven, Conn., on design of steel and reinforced concrete for 35 000-kw. steam-power plant for United Illuminating Co. at New Haven. *TT 0.4: P 0.4: D 0.4. TT 22.4: SP 5.4: P 17.5: RC 11: D 13.3.* Refers to G. L. Campen, G. W. Craig, G. P. Dorsey, R. T. Fairclough, M. A. Howe, H. E. Rixinger, G. W. Sykes.

## 1326

(1) SEGURA, VALERIANO, Assoc. M., Bureau of Public Works, Manila, Philippine Islands. (Elected Junior Oct. 1, 1913; Assoc. M. May 15, 1917.) (Age 38. Born Iloilo, Philippine Islands.) 1912 B. S. C. E., Purdue Univ. *TT 2: SP 2.* Aug. 1912 to date with Bureau of Public Works, Philippine Islands, as follows: Aug. 1912 to Nov. 1914 Asst. Engr., Cebu Province (under Dist. Engr.), had charge of construction of two market buildings, (each 27 000 pesos) three bridges (total 36 000 pesos) and 14 km. of roads; investigated and surveyed proposed roads (85 km.) and water works for nine towns; prepared estimates, etc., for proposed building projects; Nov. 1914-March 1916 Dist. Engr., Antique Province, had charge of maintenance and construction of roads, bridges, public buildings, markets and schools; April 1916 Civ. Engr. on special work in central office, investigating and testing cement; May 1916 to Jan. 1917 Second Asst. to Director of Public Works, checked requisitions from Dist. Engrs. and inspected public works; Jan. to April 1917 Civ. Engr., Cebu Province, at times in charge of office; April 1917 to March 1918 Dist. Engr., Bohol Province, in charge of maintenance, repairs, construction and reconstruction of roads, bridges, school, market and other public buildings, etc.; March 1918 to Feb. 1920 Dist. Engr., Layte Province, in charge of public works (annual appropriation 500 000 pesos), construction of Capitol Bldg. (400 000

pesos), a wharf (150 000 pesos), and a road (50 km., 500 000 pesos); July to Aug. 1918 Capt., Engrs., Philippine National Guard, at training camp; Feb. 1920 to Jan. 1922 Civ. Engr., Cebu Province, in charge of dredging and construction of harbor and improvements (800 000 pesos), construction of H. S. athletic field (50 000 pesos), etc.; Jan. 1922 to Feb. 1926 Dist. Engr., Cebu Province, in charge of construction and maintenance of public works (550 000 pesos annually), port works (250 000 pesos); since Feb. 1926 Div. Engr., Fifth Div. (Cebu, Leyte, Bohol, Samar, Masbate and Palawan Provinces); also Acting Div. Engr. of Surigao, Agusan, Misamis, Bukidnon and Lanao Provinces. *TT 15: P 15: RC 12.4: D 5.4. TT 17: SP 2: P 15: RC 12.4: D 5.4.* Refers to H. O. Garman, W. K. Hatt, W. C. A. Palmer, C. Russell, W. C. West.

## FROM THE GRADE OF JUNIOR

## 1327

(1) **BROWN, HAROLD STANTON**, Jun., Port of New York Authority, Tottenville, N. Y. (Elected March 16, 1925.) (Age 31. Born Detroit, Mich.) May 1917 to May 1919 Sergeant, 107th Engrs., U. S. Army, in command of detachments on front line reconnaissance, mess hall, barrack and railroad construction, being Instrumentman and Chf. of Party also Billetting Officer. *TT 2: SP 1.6: P 0.4.* May 1919 to Sept. 1920 with Track Dept., Detroit (Mich.) United Lines, as Draftsman on special design, Instrumentman and Chf. of Party on special work, maintenance of way, location surveys and Engr. on construction of foundations for catenaries. *TT 1.2: SP 1.2.* July 1921 to June 1922 Layout Engr., Bryant & Detwiler Co., Detroit, laying out building foundations and excavations, checking lines and grades during construction. *TT 0.9: P 0.9.* June 1922 to Oct. 1923 Asst. Chf. Engr. and Job Engr., with Sanderson & Porter, New York City, in charge of preliminary surveys and field engineering during construction. *TT 1.3: P 1.3: RC 1.3.* Oct. 1923 to May 1925 Asst. Engr., United Fruit Co., Almirante, Republic of Panama, in charge of field parties laying out farm lands and train lines; Engr. on railroad construction. *TT 1.5: P 1.5: RC 1.5.* Aug. 1925 to date with Port of New York Authority, Tottenville, N. Y., in charge of precise levels organization of triangulation system and of section of bridge during construction. *TT 2: P 2: RC 1.5: D 0.5.* *TT 8.9: SP 2.8: P 6.1: RC 4.3: D 0.5.* Refers to W. J. Boucher, R. Hoppen, Jr., A. H. Morrill, C. P. Moss, A. Onderdonk, R. V. Resenbaum, R. F. Wheadon.

## 1328

(1) **ENGLISH, CHARLES CARMEN**, Jun., La Romana, Dominican Republic. (Elected Nov. 26, 1923.) (Age 28. Born Pueblo, Colo.) 1919 to 1921 (3 years) student in M. E., Cornell Univ. *TT 1: SP 1.* Dec. 1915 to June 1917 Draftsman, Southern Colorado Power Co., Pueblo, Colo., shop drawings for rewinding motors and generators, switch panels and mechanical parts, machinery details, etc. *TT 1.5: SP 1.5.* June 1917 to Oct. 1920 Draftsman, Frazier-Sheal Co., Cleveland, Ohio, detailing steel on ore-bridges, concrete structures on water-works, filtration plants and reservoirs; designed mechanical details on blast furnace stack and plant. *TT 2: SP 2: D 1.5.* Oct. 1920 to Feb. 1921 Designer, Curless Pipe Mfg. Co., Ithaca, N. Y., made complete gear designs, bevel, spur and helical on concrete pipe-manufacturing machine. Feb. to April 1921 Designer, Low Moor (Va.) Iron Co., complete charge of designing pig-iron-breaking machine and foundations, at Cornell Univ. May 1921 to Dec. 1922 Office Engr., City of Pueblo, Colo., in charge of all office engineering in connection with street improvements, paving projects, sewers, estimates, reports on construction and preliminary studies on river control and inspection of concrete construction. *TT 1.8: P 1.8: RC 1.8: D 0.8.* Dec. 1922 to Jan. 1924 Asst. Res. Engr., Beaver Park Co., Penrose, Colo., cross-sections, profiles, canal locations, dam construction layout; designed flume structures, reinforced concrete gatehouse, forebays and gravity-section concrete dam, layout of spillway; supervision of construction. *TT 1: P 1: RC 0.2: D 0.5.* Jan. 1924 to Feb. 1925 Asst. Chf. Engr., Cheyenne Mt. Co., Colorado Springs, Colo., location, plans, designs, estimates, layout and supervision of construction on 6 miles mountain highway (\$300 000). *TT 1: P 1: RC 0.5: D 0.2.* April 1925 to date Constr. Engr., Central Romana, Inc., New York, complete charge of plans and construction of 40 km. of macadam highway, responsible for letting contracts, laying out work, estimates, reports and designs for bridges, including a 60-ft. span deck girder concrete bridge and a 40-ft. span through girder (total \$175 000) La Romana-Pintada Highway, since April 1926 also in charge of construction of seven miles of standard gauge railroad, including two timber bridges and one 50-ft. steel span through girder, Central Romana R. Rs. *TT 2.4: P 2.4: RC 2.4: D 0.3. TT 10.7: SP 4.5: P 6.2: RC 4.9: D 3.3.* Refers to C. H. Bryson, J. W. Frazier. (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

1329

(1) **HUBSCHMITT, ELMER PHILIP**, Jun., 434 Knickerbocker Ave., Paterson, N. J. (Elected Oct. 15, 1923.) (Age 27. Born Paterson, N. J.) 1922 B. S. in Civ. Eng., N. Y. Univ. *TT 2: SP 2.* Summer 1920 Draftsman, Irving Iron Works, Long Island City, on shop drawings, etc., in connection with floor grating, and steel stair construction for power plants, warehouses, etc. Summer 1921 with J. Rudolph, City Surveyor, New York City, field work, plotting and computations. July to Aug. 1922 with Thomas F. Bowe, Cons. Engr., New York City, drafting in connection with sewerage systems. *TT 0.1: SP 0.1.* Aug. 1922 to date with New York State Bridge & Tunnel Comm., and New Jersey Interstate Bridge & Tunnel Comm., New York City, until Sept. 1923 as Jun. Engr., on engineering office work in connection with construction of vehicular tunnel; checking monthly estimates and strength of contractors' plant structures, statistical work on progress reports, traffic studies, assisting on specifications for Contract 5, etc. Sept. 1923 to Nov. 1924 Asst. Engr. studying earth pressures and tunnel movement phenomena, tested construction materials, had charge of field party on rechecking of triangulation system of Holland Tunnels, survey work, shield checking and inspection; since Nov. 1924 Asst. Engr. in charge of Dept. of Materials, Testing and Special Studies, Holland Tunnels, conducting tests on construction materials and developing methods for their use, in charge of studies to control earth pressures and tunnel movement during removal of temporary blanket, placing interior lining and building structures adjacent to tunnels and river shaft caissons; writing specifications and general inspection work. *TT 5: SP 1.1: P 3.9: RC 3.5: D 0.6. TT 7.1: SP 3.2: P 3.9: RC 3.5: D 0.6.* Refers to F. H. Berger, O. L. Brodie, C. L. Crandall, C. S. Gleim, O. Singstad, F. A. Snyder, E. Welle.

1330

(15) **LEDBETTER, JOHN JACKSON, Jr.**, Jun., 1015 South Mesquite St., San Antonio, Tex. (Elected June 7, 1926.) (Age 25. Born Holecumb, Mo.) 1925 B. S. in C. E., Tex. Agri. and Mech. Coll. *TT 2: SP 2.* July 1919 to March 1920 Axeman, Chainman, Rodman and Instrumentman on surveys, Sept. 1920 to Sept. 1921 Inspector and Instrumentman on drainage and levee work, and summer 1922 meandering and cross-sectioning river, all for Pride & Fairley, Blytheville, Ark. *TT 1.8: SP 1.8.* March to April 1920 Rodman, Shockley Eng. Co., Kansas City, Mo., on highway work. *TT 0.1: SP 0.1.* Summer 1923 Helper, installing transformer stations, Memphis (Tenn.) Power & Light Co., and Instrumentman, Sewer Dept., Memphis. Summer 1924 with Ailing Blue Print Co., San Antonio, Tex., compiling map of Bexar County, Tex. June 1925 to date with Flood Prevention Dept., San Antonio, until Dec. 1926 in charge of field control of concrete on a dam, and since then Field Engr. on concrete river channel cut off No. 1, 800 ft. reinforced concrete channel and two 2-span reinforced concrete bridges, estimates, quantities, lines and grades, general field inspection and supervision. *TT 2.1: P 2.1: RC 2.1: D 0.1. TT 6: SP 3.9: P 2.1: RC 2.1: D 0.1.* Refers to S. F. Crecellus, J. T. L. McNew, J. J. Richey, N. A. Saigh, C. E. Sandstedt, R. C. Thaxton.

1331

(1) **MCCARTHY, CHARLES JOSEPH**, Jun., Care, Chance Vought Corporation, Long Island City, N. Y. (Elected July 6, 1920.) (Age 31. Born Lawrence, Mass.) 1916 S. B., Mass. Inst. Tech. *TT 2: SP 2.* June 1916 to June 1917 Asst. Instructor in Civ. Eng. Dept., Massachusetts Inst. of Technology. *TT 1: P 1.* Aug. 1917 to May 1926 with U. S. Navy Dept., successively as Ensign, Lieut. (Jun. Grade), Lieut., U. S. Naval Reserve Force, and (after Nov. 1921) Lieut., Constr. Corps engaged as follows: Aug. 1917 to April 1918 Aeronautical Draftsman, Bureau of Constr. and Repair, U. S. Navy Dept., in Washington, D. C., Buffalo and Garden City, N. Y.; in connection with design of NC-1 seaplane. April 1918 to June 1919 Ensign on work for NC-1 seaplane, and June 1919 to Nov. 1925 with Aviation Sec., Bureau of Constr. and Repair, and later Bureau of Aeronautics, Washington, D. C., being Project Engr. in charge of design of a giant flying boat, also in charge of Structures Subsection of Design Div., being responsible for instructions and procedure controlling strength of all naval aircraft; passing on new designs; Nov. 1925 to May 1926 Process Asst. to Shop Supt., Naval Aircraft Factory, Navy Yard, Philadelphia, on shop processes, tools, fixtures, etc. *TT 8.8: P 8.8: RC 6.5: D 0.7.* May 1926 to date Eng. Executive, Chance Vought Corporation, in charge of Eng. Dept. *TT 1.3: P 1.3: RC 1.3: D 1.3. TT 13.1: SP 2: P 11.1: RC 7.8: D 2.* Refers to J. R. Freeman, R. S. Johnston, H. B. Luther, C. M. Spofford, S. Truscott.

1332

(13) **MEURSINGE, JOHANNES HENDRIK**, Jun., 1212 Monterey Ave., Berkeley, Cal. (Elected Nov. 26, 1923.) (Age 31. Born Nymegen, Holland.) 1923 C. E., Technische Hoogeschool, Delft, Holland. *TT 2: SP 2.* March 1923 to Jan. 1924 Draftsman, Washington Water Power Co., Spokane, Wash., map drafting and steel design for hydro-electric development. *TT 0.8: SP 0.8.* Jan. to Sept. 1924 Draftsman and Inspector, Longview (Wash.) Co., on reinforced

concrete structures. *TT 0.6: SP 0.6.* Oct. 1924 to June 1925 Structural Detailer with Lyman Griswold, Cons. Engr., Portland, Ore., detailing structural and mechanical designs for hydro-electric development. *TT 0.8: SP 0.8.* June 1925 to July 1926 Hydr. Draftsman and Designer, Pacific Power & Light Co., Portland, on hydraulic structures for hydro-electric developments. *TT 1.1: SP 0.5: P 0.6: RC 0.6: D 0.6.* Aug. 1926 to date Structural Designer, Feather River Power Co., San Francisco, Cal., designing and checking construction drawings for hydro-electric development. *TT 1: P 1: RC 1: D 1.* *TT 6.3: SP 4.7: P 1.6: RC 1.6: D 1.6.* Refers to G. E. Goodall, L. Griswold, C. W. Harris, D. C. Henny, G. B. Heywood, L. R. Jorgensen, O. Speir, Jr., W. F. Way.

## 1333

(15) RIDLEY, ELGAN McNEIL, Jun., P. O. Box 189, Brownsville, Tex. (Elected June 7, 1926.) (Age 26. Born Duncan, Okla.) June 1922 to Sept. 1923 with R. A. Burgess, San Antonio, Tex., as Asst. Engr. in charge of topographic and land surveys, new additions to City. *TT 1.1: SP 0.5: P 0.6: RC 0.6.* March 1919 to April 1922 Rodman and Instrumentman, and Jan. 1924 to date Asst. Engr. on irrigation, drainage and municipal engineering, surveys with A. E. Anderson. *TT 6.6: SP 3.1: P 3.5: RC 2.* *TT 7.7: SP 3.6: P 4.1: RC 2.6.* Refers to A. E. Anderson, V. L. Conrad, B. S. Gentry, A. Tamm, W. O. Washington.

## 1334

(15) VAN VALKENBURGH, HAROLD TEUNIS, Jun., Interurban Bldg., Dallas, Tex. (Elected July 12, 1926.) (Age 25. Born North Greenbush, N. Y.) 1922 C. E., Rens. Pol. Inst. *TT 2: SP 2.* Summers 1919-1921 Surveyman, U. S. Engr. Dept., Albany, N. Y., acting as Instrumentman. Aug. 1922 to June 1923 Chainman, New York Central R. R., M. of W. Dept., Albany, N. Y., field work, drafting and estimating. *TT 0.8: SP 0.8.* June 1923 to April 1925 Jun. Engr., Bureau of Eng., Troy, N. Y., being Chf. of Party on surveys, design, and estimates for construction of pavements, sewers and grading. *TT 1.8: SP 0.3: P 1.5: RC 1: D 0.5.* April to Dec. 1925 Engr., St. Lawrence Valley Power Corporation, Potsdam, N. Y., in charge of field engineering on hydro-electric construction, including Ambursen dam,  $\frac{1}{2}$  mile 6-ft. steel penstock, reinforced concrete and brick power house, 3 000-h. p. installation. *TT 0.7: P 0.7: RC 0.7.* Jan. 1926 to date Engr., Texas Power & Light Co., Dallas, Tex. from Oct. 1926 to April 1927 being Engr. in charge on hydro-electric construction, and reconstruction of two small hydro-electric plants, including mechanical and electrical equipment; April to June 1927 in charge of temporary operation of these plants; Jan. to Oct. 1926 and since June 1927 compiling preliminary reports for hydro-electric developments, including study of stream and flood flow and regulation, power output, preliminary cost estimates of construction, etc. *TT 1.5: P 1.5: RC 1.5.* *TT 6.8: SP 3.1: P 3.7: RC 3.2: D 0.5.* Refers to W. B. Carr, L. W. Clark, L. W. Greene, P. C. Ricketts, A. E. Roche.

## 1335

(8) WHANNEL, RAYMOND LEONARD, Jun., 400 South Illinois St., Springfield, Ill. (Elected Aug. 30, 1926.) (Age 29. Born Gladbrook, Iowa.) 1923 B. S., Iowa State Coll. *TT 2: SP 2.* June to Oct 1920 Instrumentman, Union County, Iowa, on highways. July to Oct. 1921 and June 1922 to Jan. 1923 Research Asst., Iowa Eng. Experiment Station, testing materials and working on culvert-pipe investigation. April 1923 to July 1924 Jun. Highway Engr., and July 1924 to March 1925 Asst. Highway Engr., Illinois Div. of Highways, Bureau of Bridges, designing and checking highway bridges. *TT 1.9: SP 1.2: P 0.7: RC 0.7: D 1.9.* March 1925 to date with City of Springfield, Ill., until June 1927 as Supt. of Bldgs., Div. of Bldg. Inspections, Dept. of Public Health and Safety, in charge of inspection of building construction and installations and since July 1927 Engr., Water, Light & Power Dept. *TT 2.4: P 2.4: RC 2.4.* *TT 6.3: SP 3.2: P 3.1: RC 3.1: D 1.9.* Refers to G. F. Burch, E. D. Dryfoose, C. M. Hathaway, A. Marston, F. Tarrant.

*The Board of Direction will consider the applications in this list not less than thirty days after the date of its issue.*